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Data for November 1975–October 1975

Explanation of Data Reports Issued as Number 366 (Supplement) February 1975

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Solar - Geophysical Data

NO. 376 DECEMBER 1975

Part I (Prompt Reports)

DATA FOR
NOVEMBER 1975
OCTOBER 1975

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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No. 376

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

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Note: A = Part I, B = Part II.

362A 32 listed under 1974 Aug shows that data for August 1974 were contained in *Solar-Geophysical Data* Number 362 - Part I beginning on page 32.

NOVEMBER 1975 DATA

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ALERT PERIODS

INTERNATIONAL URSIGRAM
AND WORLD DAYS SERVICE

NOVEMBER 1975

PRESTO MESSAGES (THE RAPID REPORT OF MAJOR EVENTS)

BOULDER 03 NOVEMBER 1975 MAGSTORM BEGINS 02/1000Z GRADUAL BEGINNING K = 5 AT 03/0000Z, K = 6 AT 03/0235Z.
BOULDER 21 NOVEMBER 1975 SOFLARE 1B/M2 S07W22 21/0610Z GREATER THAN 60 MINUTES.
TENFLARE 200 FLUX UNITS 21/0610Z 52 MINUTES.
BOULDER 22 NOVEMBER 1975 WEAK MAGSTORM IN PROGRESS 22/1445Z. SSC 21/2305Z.
BOULDER 29 NOVEMBER 1975 MAGSTORM BEGINS 29/0656Z.

SUMMARY OF THE GEOALERT WWA MESSAGES

Message serial number	Date of issue	Date of observation	Wolf number	10 cm solar flux	A index	Active Regions Location Lat-Long	No. of Flares Total	M	X	Outstanding events	Forecasts Date	Location Lat-Long	Desc*	Alert Situations
305	01	31	00	71	14	-	-	-	-	SPOTNIL	01	SPOTNIL		SOLQUIET MAGALERT MINOR 02/06
306	02	01	00	72	06	-	-	-	-	SPOTNIL	02	SPOTNIL		SOLQUIET MAGALERT MINOR 03/06
307	03	02	12	73	25	-	-	-	-	RECURRENT MINOR MAGNETIC STORM STARTED 02/1000Z	03	SPOTNIL		SOLQUIET MAGALERT MINOR 03/06
308	04	03	13	74	40	S02E42	0	0	0	A GEOMAGNETIC STORM IS IN PROGRESS	04	S02E42	Q	SOLQUIET MAGALERT MINOR 04/06
309	05	04	43	77	32	S02E27 N05W07 N04E81	0 0 0	0 0 0	0 0 0	A GEOMAGNETIC STORM IS IN PROGRESS	05	S02E27 N05W07 N04E81	Q Q Q	SOLQUIET MAGALERT MINOR 05/06
310	06	05	63	80	15	S04E10 N05W19 N04E61 S07E45	0 0 4 0	0 0 0 0	0 0 0 0		06	S04E10 N05W19 N04E61 S07E45	Q Q E Q	SOLQUIET MAGALERT 06 STRATWARM ALERT/ THURSDAY/ SPRING TIME TEMPERATURE REVERSAL ESTABLISHED OVER ANTARCTICA IN MID STRATOSPHERE. CIRCULATION REVERSAL PROGRESSING IN UPPER STRATOSPHERE.
311	07	06	55	82	12	S03E01 N03E48 S06E31	0 4 0	0 0 0	0 0 0		07	S03E01 N03E48 S06E31	Q E Q	SOLQUIET MAGNIL STRATWARM ALERT/ FRIDAY/ SPRING TIME TEMPERATURE REVERSAL ESTABLISHED OVER ANTARCTICA IN MID STRATOSPHERE. CIRCULATION REVERSAL PROGRESSING IN UPPER STRATOSPHERE.
312	08	07	39	82	08	S03W14 N03E37 S06E17	0 0 0	0 0 0	0 0 0		08	S03W14 N03E37 S06E17	Q Q Q	SOLQUIET MAGQUIET STRATWARM ALERT/ SATURDAY/ STRATWARM EXISTS ANTARCTICA. WARM AIR IN LOWER STRATOSPHERE APPROACHING COASTAL REGIONS PROGRESSING POLEWARD.
313	09	08	53	83	05	S05W30 N04E25	0 0	0 0	0 0		09	S05W30 N04E25	Q Q	SOLQUIET MAGQUIET
314	10	09	37	80	18	N03E11	0	0	0		10	N03E11	Q	SOLQUIET MAGQUIET
315	11	10	21	80	10	N04W03	2	0	0		11	N04W03	Q	SOLQUIET MAGQUIET
316	12	11	16	80	12	N04W17	1	0	0		12	N04W17	Q	SOLQUIET MAGQUIET
317	13	12	29	81	09	N04W26 N07E47	0 0	0 0	0 0		13	N04W26 N07E47	Q Q	SOLQUIET MAGQUIET
318	14	13	32	81	04	N04W43 N07E30 S07W79	0 0 0	0 0 0	0 0 0		14	N04W43 N07E30 S07W79	Q Q Q	SOLQUIET MAGQUIET
319	15	14	42	85	02	N04W59 N08E16 S08E63	0 0 1	0 0 0	0 0 0		15	N04W59 N08E16 S08E63	Q Q Q	SOLQUIET MAGQUIET
320	16	15	33	86	02	N07E01 S08E50	0 4	0 0	0 0		16	N07E01 S08E50	Q E	SOLQUIET MAGQUIET
321	17	16	56	90	06	N07W09 S07E38	0 9	0 1	0 0		17	N07W09 S07E38	Q E	SOLQUIET MAGQUIET
322	18	17	64	91	11	N07W24 S06E25	0 4	0 0	0 0		18	N07W24 S06E25	Q Q	SOLQUIET MAGQUIET
323	19	18	53	96	06	N06W39 S06E11	0 3	0 0	0 0		19	N06W40 S06E10	Q E	SOLALERT 19/28 MAGQUIET
324	20	19	54	96	08	N06W51 S06W01	1 2	0 0	0 0		20	S06W51 S06W01	Q E	SOLALERT MAGQUIET
325	21	20	42	93	08	N06W65 S07W15	0 1	0 0	0 0		21	N06W66 S07W16	Q E	SOLALERT MAGQUIET
326	22	21	34	89	16	N06W83 S07W28	0 1	0 1	0 0		22	S06W83 S07W28	Q E	SOLALERT 22/28 MAGALERT 24/25
327	23	22	25	84	36	S07W40	0	0	0		23	S07W40	E	SOLALERT 23/28 MAGALERT 23/24
328	24	23	14	79	07	S07W53	0	0	0		24	S07W53	Q	SOLNIL MAGNIL
329	25	24	12	77	06	S07W65	0	0	0		25	S07W65	Q	SOLQUIET MAGQUIET
330	26	25	12	76	15	S07W81	0	0	0		26	S07W81	Q	SOLQUIET MAGQUIET
331	27	26	00	74	12	-	0	0	0	SPOTNIL	27	-		SOLQUIET MAGQUIET
332	28	27	00	73	03	-	0	0	0	SPOTNIL	28	-		SOLQUIET MAGALERT 29/02
333	29	28	00	72	08	-	0	0	0	SPOTNIL	29	-		SOLQUIET MAGALERT 29/02
334	30	29	00	73	28	-	0	0	0	SPOTNIL	30	-		SOLQUIET MAGALERT 30/02
335	01	30	00	73	27	-	0	0	0	SPOTNIL	01	-		SOLQUIET MAGALERT MINOR 01/02

RELATIVE SUNSPOT NUMBERS

ZURICH, R_z

1974 FINAL 1975 PROVISIONAL

DAY	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	0	30	0	0	0	26	7	23	37	14	15	0
2	0	30	22	7	0	33	11	18	36	16	8	0
3	9	28	28	14	3	29	8	22	46	19	9	7
4	16	19	27	11	0	28	7	22	78	29	10	18
5	17	18	20	14	21	28	7	23	93	25	8	22
6	8	23	26	14	0	20	7	33	104	24	10	27
7	7	32	34	7	15	16	0	23	102	24	9	30
8	0	29	29	18	17	0	0	19	89	23	16	30
9	0	37	22	19	9	0	0	16	83	17	15	30
10	9	31	18	20	13	9	0	23	80	10	8	22
11	21	30	13	20	0	0	9	29	72	10	8	30
12	31	31	18	15	0	0	0	33	45	16	8	24
13	34	32	9	15	0	0	0	49	52	25	16	26
14	33	11	8	17	0	7	0	44	34	17	30	28
15	35	20	8	18	0	7	8	43	31	8	23	27
16	40	17	8	30	0	8	19	39	26	14	19	30
17	36	16	0	30	0	0	17	23	19	14	8	32
18	34	20	0	24	0	8	12	29	16	18	18	37
19	43	20	0	20	0	0	16	36	8	13	16	31
20	48	18	7	16	0	0	0	26	22	30	12	36
21	48	16	8	9	0	8	7	38	23	27	7	36
22	37	16	0	6	0	8	0	27	0	23	0	26
23	28	15	0	0	7	8	12	19	8	0	0	12
24	26	7	12	0	8	7	20	30	8	0	7	10
25	9	7	9	0	7	0	24	33	11	0	0	8
26	8	7	0	13	7	0	33	30	16	0	0	7
27	8	0	0	7	26	7	38	29	18	0	0	0
28	20	7	0	0	19	13	36	26	10	0	0	0
29	16	7		0	16	0	23	20	10	0	0	0
30	19	7		7	20	0	22	27	21	7	0	0
31	13	0		8		8		34	21		0	
MEAN	20.5	18.7	11.6	12.0	6.2	8.7	11.4	28.3	39.3	14.1	9.8	19.3

1974 yearly mean = 34.5

DAILY SOLAR SOLAR FLUX AT 2800 MHz
OTTAWA ARO

FLUX ADJUSTED TO 1 A.U., S_a

1974 1975

DAY	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	79.7	78.1	70.8	70.7	70.2	76.3	71.4	78.7	91.6	87.0	76.4	78.4
2	78.7	75.8	72.3	72.4	71.2	81.1	73.8	76.8	95.4	87.9	78.1	71.4
3	76.7	77.1	74.3	73.4	72.2	79.6	70.8	77.1*	97.0*	87.8	78.4	73.0
4	74.7	74.4	75.4	72.8	73.0	79.6	70.4	76.8	104.6	92.8	76.3	75.4
5	73.2	73.7	76.5	71.3	73.7	79.4	69.3	76.8	107.9	94.4	76.1	78.9
6	71.9	73.8	81.1	72.4	73.7	75.9	68.2	76.1	120.8*	94.0	75.1	80.1
7	71.1	75.7	79.4	71.9	74.3	73.6	68.1	74.1	123.2	91.1	74.3	80.5
8	69.6	77.7	78.8	72.5	73.6	71.9	67.5	74.0	123.7	88.5	74.0	80.9
9	69.6	79.9	77.1	73.8	73.4	70.6	67.7	73.3	115.9	94.3	75.4	78.8
10	70.4	80.5	76.7	73.3	72.4	70.1	68.8	73.0	116.5	82.5	74.3	78.9
11	76.2	81.2	74.8	73.8	72.3	69.8	68.1	77.6	107.3	81.1	73.3	78.6
12	77.9	82.4	74.9	74.2	70.8	69.6	68.4	82.7	104.5*	78.2*	74.8	79.9
13	78.0	80.4	73.7	75.6*	70.7	69.1	67.9	88.5*	98.0	75.2	79.0	79.2
14	78.2	77.7	72.8	75.0	69.7	68.7	68.5	89.0	90.9*	74.2	80.0	82.7
15	83.2	77.4	69.7	73.4	69.7	68.8	68.9	85.6	86.0	74.1	80.3	83.7
16	88.3	76.5	71.4	76.0	69.2	68.5	71.4	83.6	82.8	74.3	78.5	87.6
17	88.3	74.7	69.3	75.3	69.6	68.3	70.2	81.2	79.0	74.8	78.9	88.3
18	90.3	75.8	68.3	74.2	68.3	68.7	70.2	82.8	76.4	76.2	79.2	90.8*
19	91.9	74.1	70.0	72.9	67.5	68.9	71.0	81.9	76.7	76.2	78.0	93.0*
20	87.3	73.8	69.5	71.9	68.0	68.6	72.5	83.3	77.2	76.5	77.1	90.9
21	86.0	74.5	68.9	71.2	68.2	69.7	68.7	83.1	80.0	76.7	75.7	86.6
22	84.4*	73.6	68.3	69.3	67.8	70.8	69.9	82.7	78.5	75.3	74.2	81.5
23	83.8	72.7	68.3	67.6	68.7	70.6	72.9	82.0	76.8	76.1	74.3	77.2
24	80.1	71.8	68.6	67.4	69.3	70.6	75.9	79.3	77.0	76.8	72.7*	74.7
25	78.9	70.3	69.4	67.5	71.6	70.2	77.7	79.8	80.6	76.7	72.1	73.7
26	75.8	70.5	68.8	68.6	72.1	69.0	79.8	80.0	81.3	76.7	71.9	71.9
27	74.3	70.1	69.4	67.3	74.4	70.5	81.5	78.5	83.6	75.7	72.1	70.7
28	73.7	70.7	68.6	67.8	74.8	70.6	80.7	76.5	83.3	76.1	71.7	70.4
29	74.1	70.4		69.0	73.2	71.0	79.4	75.5	84.7	75.9	70.8	70.9
30	74.5	70.5		69.0	73.4	71.0	78.8	78.9	86.2	75.8	70.2	70.6
31	76.1	70.1		70.5		71.1		81.9*	86.7		69.9	
MEAN	79.6	75.8	72.4	71.7	71.2	71.6	71.9	79.7	92.7	80.4	75.3	79.1

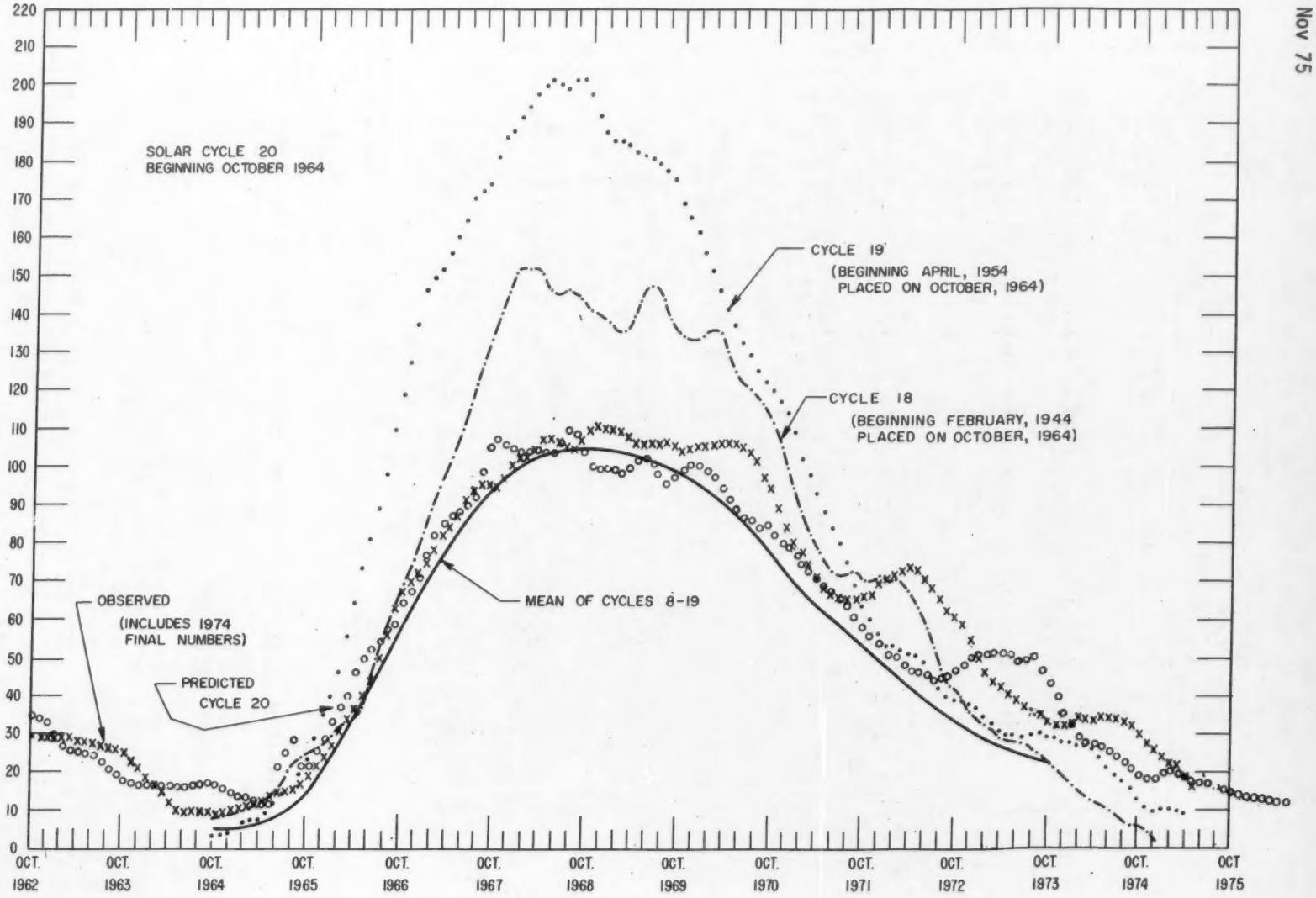
* adjusted for burst

DAILY SOLAR INDICES

NOVEMBER 1975

NOV 1975	YEAR DAY	BARTELS 27-DAY CYCLE NUMBER	SUNSPOT NUMBERS		OBSERVED FLUX	SOLAR FLUX ADJUSTED TO 1 A.U.								
			R_Z	$R_{A'}$	OTTAWA 2800	AFCRL 15400	AFCRL 8800	AFCRL 4995	OTTAWA 2800	AFCRL 2695	AFCRL 1415	AFCRL 606	AFCRL 410	AFCRL 245
1	305	9	0	0	71.5	527	275	115	70.4	68.8	47.1	36.8	21.4	8.1
2	306	10	0	0	72.6	524	271	114	71.4	69.5	45.6	34.6	20.4	7.8
3	307	11	7	4	74.2	521	272	117	73.0	70.4	48.6	37.6	22.5	8.1
4	308	12	18	22	76.7	526	274	118	75.4	73.0	49.1	38.2	23.5	9.1
5	309	13	22	22	80.3	526	281	121	78.9	76.4	51.9	40.0	22.8	9.6
6	310	14	27	29	81.6	530	282	124	80.1	78.8	53.7	39.6	22.5	8.3
7	311	15	30	37	82.0	529	279	122	80.5	78.2	52.7	39.4	22.3	8.1
8	312	16	30	30	82.5	529	273	122	80.9	77.9	54.4	40.3	22.4	8.6
9	313	17	30	24	80.3	528	268	121	78.8	74.7	51.3	37.8	20.2	7.4
10	314	18	22	18	80.5	526	270	120	78.9	78.0	55.2	40.2	21.4	8.1
11	315	19	30	17	80.2	522	277	120	78.6	77.3	52.0	39.9	23.2	8.1
12	316	20	24	19	81.6	525	275	121	79.9	77.9	54.7	41.2	23.5	8.4
13	317	21	20	27	80.9	524	279	122	79.2	79.1	55.8	40.8	23.5	8.4
14	318	22	28	31	84.5	524	282	124	82.7	80.3	57.0	40.5	23.4	8.1
15	319	23	27	27	85.6	520	279	124	83.7	82.8	57.0	40.2	23.7	9.0
16	320	24	30	33	89.6	533	290	130	87.6	86.6	59.5	42.6	24.2	14.7
17	321	25	32	34	91.0	527	286	134	88.9	87.2	60.6	42.2	25.5	15.3
18	322	26	37	34	92.9*	536	287	137	90.8*	90.6	59.7	43.6	23.7	10.7
19	323	27	31	39	95.3*	532	287	139	93.0*	91.3	57.0	42.2	27.7	22.1
20	324	1	36	37	93.1	520	280	132	90.9	87.0	58.4	42.6	25.5	16.7
21	325	2	36	31	88.7	528	280	129	86.6	84.2	58.9	41.1	24.9	16.7
22	326	3	26	16	83.6	524	277	124	81.5	80.7	54.5	41.1	37.1	80.5
23	327	4	12	12	79.2	519	273	118	77.2	76.1	52.6	41.1	21.7	11.5
24	328	5	10	11	76.7	521	270	118	74.7	73.7	51.3	38.2	24.1	8.8
25	329	6	8	9	75.7	523	272	115	73.7	71.5	49.0	37.6	23.7	8.4
26	330	7	7	2	73.8	525	274	114	71.9	69.8	46.7	38.0	20.2	8.3
27	331	8	0	0	72.7	523	272	113	70.7	69.4	46.2	35.3	21.8	8.3
28	332	9	0	0	72.4	521	270	113	70.4	68.9	45.9	34.7	23.1	8.0
29	333	10	0	0	72.9	526	272	113	70.9	69.0	45.9	35.8	22.5	8.7
30	334	11	0	0	72.6	526	279	115	70.6	70.3	47.2	37.3	21.8	8.5
MEAN			19.3	18.8	80.8	526	277	122	79.1	77.3	52.7	39.4	23.0	12.3

* Adjusted for burst.



PREDICTED AND OBSERVED SUNSPOT NUMBERS

SMOOTHED OBSERVED AND PREDICTED SUNSPOT NUMBERS
CYCLE 20

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1964										9.6	10.2	11.8
1965	11.7	12.0	12.5	13.6	14.6	15.0	15.5	16.4	17.4	19.7	22.3	24.5
1966	27.7	31.3	34.5	37.4	40.7	44.6	50.3	56.6	63.1	67.6	70.2	72.7
1967	75.0	78.0	82.2	84.6	87.4	91.3	94.1	95.3	95.3	95.3	97.3	100.6
1968	102.6	102.9	104.7	107.2	107.6	106.6	105.2	104.0	107.0	109.9	110.6	110.1
1969	110.0	109.6	108.0	106.4	106.2	106.1	105.0	106.4	105.4	104.1	104.6	104.9
1970	105.6	106.0	106.2	106.1	105.0	105.3	103.0	101.3	97.2	93.9	89.4	84.1
1971	80.4	77.0	74.4	70.9	68.1	66.7	65.4	64.6	65.0	66.2	66.0	69.4
1972	70.0	71.2	72.4	73.4	72.9	70.5	68.2	65.5	62.2	60.6	58.7	55.1
1973	50.9	46.5	44.2	42.7	40.7	39.1	37.5	36.1	34.4	32.6	31.0	31.5
1974	32.7	34.4	34.0	33.9	34.6	34.5	34.0	33.1	32.1	30.3	27.6	25.2
1975	23.9	22.2	21.3	18.6	16.9	16.0 12.1	16.4 (5.)	16.0 (7.1	15.6 19.1	15.2 (--)	14.8 (--)	14.4 (--)
1976	13.9 (--)	13.4 (--)	13.0 (--)	12.5 (--)	12.0 (--)							

For each month, the upper figure is the observed or predicted Zürich smoothed sunspot number. The lower figure in parenthesis is the corresponding absolute value of the 90% prediction interval, an indication of the uncertainty above and below the predicted number. Observed numbers are those with no prediction intervals. The observed smoothed sunspot numbers are based on final Zürich numbers through 1974.

The predicted sunspot numbers are derived from a regression analysis based on cycles 8 through 19. Tests indicate that earlier cycles are from a different statistical population. From July 1968 - February 1970 a regression analysis based on cycles 1 through 19 was used because it had not then been proven that two populations exist.

Hα SOLAR FLARES

NOVEMBER 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE NOV	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Millionths of Disk	CORR. AREA Sq. Deg.	
ARCE	04	0827E		0907D	N03	E88	1.000		11.0	400	SN		C	0853	48		
ARCE	04	0927E		0950D	S03	E63	.890		9.1	230	SF		C	0944	60	.8	
PALE	04	2050	2050	2106	S 4	E80	.984		10.9	16	SF	2	C		6		DE
PALE	05	0041E	0041U	0047	S 4	E76	.969		10.7	60	SF	2	C		15		DE
MANI	05	0043E	0043U	0047	N04	E79	.983		11.0	40	SF	3	V	0043	20	.5	
ISTA	05	0810E		0830	N02	E71	.948		10.7	200	SN						D
MCMA	05	1458E		1650	N04	E70	.943	13926	10.9	1120	1N		C	1459	100	3.0	BEL
MCMA	05	1710	1712	1716	N03	E69	.937	13926	10.9	6	SN		C	1712	20	.6	D
PALE	05	1710	1712	1721	N 3	E66	.917		10.7	11	SF	2	C		12		DE
PALE	05	1743	1744	1819	N 4	E66	.918		10.7	36	SF	3	C		26		DE
MCMA	05	1743	1744	1749	N03	E69	.937	13926	10.9	6	SB		C	1744	20	.6	DL
BOUL	05	1835	1859	2000	N 3	E67	.924	13926	10.8	85	1N	1	C	1859	128	3.2	
PALE	05	1835	1859	1922D	N 4	E65	.911		10.6	47D	SN	2	C		80		DE
MCMA	05	1844	1855	1913	N05	E68	.932	13926	10.9	29	1N		C	1855	80	2.2	EKL
PALE	05	2050	2050	2106	S 4	E80	.984		11.9	16	SF	2	C		6		DE
BOUL	05	2139	2145	2215	N 4	E64	.904	13926	10.7	36	1N	1	C	2145	96	2.2	
CULG	05	2141	2144	2155	N03	E68	.931		11.0	14	SF		P	2144	30	.8	
CULG	06	0115	0118	0142	N02	E65	.909	13926	10.9	27	1N		C	0118	90	2.1	
CULG	06	0504	0507	0517	N02	E62	.887		10.9	13	SF		P	0507	30	.6	
CULG	06	0625	0629	0645	N01	E61	.877	13926	10.8	20	1N		C	0629	100	2.1	
MANI	06	0638E	0638U	0643	N02	E60	.870		10.8	50	SN	3	V	0638	50	.9	F
ATHN	06	0922E	0924	0932	N 3	E57	.845		10.7	100	SN	2	C		48		DE
ATHN	06	0922E	0924	0932	N 3	E57	.845		10.7	100	SN	2	V		48		DE
TEHR	06	0923E	0925U	0933	N 2	E58	.853		10.7	100	SB	3	V		40		DE
ARCE	06	0926	0926	0945D	N04	E59	.864	13926	10.8	190	1B		C	0926	243	4.9	T
RAMY	06	1157	1207	1218	N 4	E56	.837	13926	10.7	21	1N	4	C		216		DE H
TEHR	06	1206E	1208U	1215D	N 3	E57	.845		10.8	90	SF	3	V		80		F H
RAMY	06	1708	1714	1725	N 3	E52	.796		10.6	17	SF	4	C		63		DE
MCMA	06	1709	1712	1718	N02	E55	.825	13926	10.8	9	SF		C	1712	40	.7	E
PALE	09	2318	2320	2326D	N 5	E 8	.242		10.6	8D	SF	2	C		18		DE
ATHN	10	0721	0729	0736	N 2	E 6	.182		10.8	15	SN	3	C		80		U H
ATHN	10	0721	0729	0736	N 2	E 6	.182		10.8	15	SN	3	V		80		U H
MANI	10	0723	0728	0732D	N03	E04	.180		10.6	90	SN	3	P	0728	60	.6	FH
CATA	10	0735E	0735	0810	N02	E03	.158		10.5	350	SN	3		0735	84	1.0	
CATA	10	0830	0845	0850	N02	E03	.158		10.6	20	SN	3		0845	84	1.0	
ATHN	10	0842E	0842U	0846	N 2	E 6	.182		10.8	4D	SF	3	C		32		F
ATHN	10	0842E	0842U	0846	N 2	E 6	.182		10.8	4D	SF	3	V		32		F
RAMY	10	1129	1133	1141	N 2	W 0	.149		10.5	12	SN	4	C		180		UDE
RAMY	10	1426	1433	1447	N 4	W 1	.184		10.5	19	SN	4	C		36		F
BOUL	10	1429	1435	1455	N 4	W 0	.184		10.6	26	SF	1	C	1435	107	1.1	
MANI	11	0111	0116	0124	N03	W06	.197		10.6	13	SN	3	P	0116	90	.9	F
PALE	11	0112	0113	0115D	N 4	W 4	.197		10.8	3D	SF	3	V		38		DE
PALE	11	0112	0113	0115D	N 4	W 4	.197		10.8	3D	SF	3	C		38		DE
CATA	11	0900E	0900	0910	N02	W10	.228		10.6	10D	SF	3		0900	56	.6	
BOUL	12	2024	2025	2032	N 2	W26	.460		10.9	8	SF	2	C	2025	21	.2	
BOUL	12	2035	2039	2052	S12	E 9	.180		13.5	17	SF	2	C	2039	42	.4	
RAMY	12	2038E		2038D	S15	E11	.236		13.7		SF	2	V		143		F
BOUL	12	2144	2146	2156	N 2	W28	.489		10.8	12	SF	2	C	2146	21	.2	
CULG	14	0334	0335	0338	N02	W47	.740		10.6	4	SF		C	0335	15	.2	
CULG	14	0409	0412	0418	S10	E80	.982	13937	20.2	9	1N		P	0412	60	2.4	
MANI	14	0416E	0416U	0427	S07	E75	.963		19.8	11D	SN	2	V	0416	80	2.0	
ARCE	14	0807E		0835D	N06	E26	.484		16.3	28D	SN		C	0819	45	.5	
RAMY	14	1141	1151	1159	N 6	E23	.443		16.2	18	SF	4	C		63		F
RAMY	14	1148E	1154	1159	N 7	E24	.464		16.3	11D	SF	4	V		64		F
CATA	15	0945	0945	1000	N03	W63	.896	13926	10.7	15	1F	1		0945	112	2.5	
ARCE	15	1005E		1005D	N11	W59	.878		11.0		SF		P	1005	37	.7	
RAMY	15	1143E	1145U	1219D	S 6	E58	.844		19.8	36D	SN	4	C		189		FDE
CATA	15	1145	1145	1230D	S07	E57	.834	13937	19.8	45D	2B	1		1145	505	10.0	
RAMY	15	1146E	1149	1201D	S 8	E61	.870		20.1	15D	SN	4	V		175		F
MCMA	15	1654		1720D	S09	E56	.824	13937	19.9	26D	SF		C	1706	70	1.3	E
MCMA	15	1842	1843	1846	S09	E57	.833	13937	20.1	4	SF		C	1843	30	.5	D
MCMA	15	1847		1942D	S07	E61	.870	13937	20.4	55D	1B		C	1912	90	2.0	EK
RAMY	15	1847	1908	2022	S 5	E61	.872		20.4	95	SN	4	C		135		F S
PALE	15	1848	1938U	2022D	S 8	E60	.861		20.3	94D	SF	3	C		36		DE

Hα SOLAR FLARES

NOVEMBER 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.			MEASUREMENTS			REMARKS
	DATE NOV	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COORD.	TYPE		TIME UT	MEAS. AREA Millionths of Disk	CORR. AREA Sq. Deg.	
RAMY	15	1905E	1908	1925D	S 7	E57	.834		20.1	200	SN	4	V			128		F S
BOUL	15	1907E	1915	1940	S 5	E61	.872		20.4	330	SN	2	C		1915	96	2.0	
BOUL	15	2137	2142	2157	S10	E53	.793		19.9	20	SF	2	C		2142	21	.4	
CULG	15	2308	2316	2324	S09	E53	.793		19.9	16	SF		C		2316	40	.7	
MANI	15	2309	2311	2321	S07	E52	.784		19.9	12	SN	3	V		2311	80	1.3	D
PALE	16	0044	0050	0112	S 8	E50	.761		19.8	28	SF	3	C			26		
PALE	16	0129	0132	0153	S 8	E51	.772		19.9	24	SF	3	C			26		DE
MANI	16	0145E	0145U	0153	S07	E51	.773		19.9	80	SF	3	V		0145	30	.5	
MITK	16	0202	0210	02220	S07	E51	.773		19.9	200	SN		C		0210	110	1.8	
PALE	16	0208E	0210	0229	S 8	E50	.761		19.8	210	SN	3	C			110		U
MANI	16	0209	0214	0226	S07	E51	.773		19.9	17	SN	3	V		0214	70	1.2	D
PALE	16	0239	0244	0253	S 8	E50	.761		19.9	14	SF	3	C			76		DE
MITK	16	0537	0547	06210	S07	E47	.727		19.8	440	SB		C		0547	80	1.2	EH
MANI	16	0541E	0551	0617	S07	E49	.750		19.9	360	SB	3	V		0551	120	1.9	ZS
RAMY	16	1112	1117	1121	S 8	E45	.702		19.8	9	SN	4	C			48		DE H
RAMY	16	1115E	1117	11210	S 9	E44	.690		19.8	60	SN	4	V			42		DE H
BOUL	16	1450	1525	1630	S 7	E44	.690		19.9	100	SF	2	C		1525	74	1.0	
MCMA	16	1450	1454	1520	S08	E43	.677	13937	19.8	30	SB		C		1454	70	1.0	EL
BOUL	16	1740	1744	1800	S 4	E43	.681		20.0	20	SF	2	C		1744	64	.9	
MCMA	16	1744	1745	1749	S05	E45	.704	13937	20.1	5	SF		C		1745	40	.6	E
RAMY	16	2007	2017	2024	S 8	E42	.665		20.0	17	SF	3	C			135		DE
BOUL	16	2008	2016	2055	S 9	E41	.651		19.9	47	SN	1	C		2016	107	1.4	
PALE	16	2014E	2016U	20180	S 8	E40	.638		19.8	40	SF	2	C			80		DE
RAMY	16	2020E	2022U	20270	S 7	E43	.678		20.1	70	SF	3	V			70		DE
BOUL	16	2138	2145	2226	N 5	W76	.973		11.2	48	SF	2	C		2145	53	1.7	
PALE	17	0014E	0014U	00200	S 8	E37	.598		19.8	60	SF	2	C			41		DE
RAMY	17	1145E	1155	12450	S 7	E30	.497		19.7	600	SN	4	V			128		Z F
ATHN	17	1149E	1154	1240	S 8	E31	.511		19.8	510	SN	4	C			128		Z F
ATHN	17	1149E	1154	1240	S 8	E31	.511		19.8	510	SN	4	V			128		Z F
TEHR	17	1150E	1152U	12100	S 8	E32	.526		19.9	200	SN	2	V			58		F
CATA	17	1210E	1210	12150	S05	E28	.468		19.6	50	SN	1			1210	112	1.3	
MCMA	17	1310E		1335	S07	E29	.481	13937	19.7	250	SF		C		1319	50	.6	EH
MCMA	17	1352	1401	14300	S07	E27	.451	13937	19.6	380	SF		C		1401	60	.7	EH
MCMA	17	1434		1510	S07	E27	.451	13937	19.6	36	SF		C		1445	50	.6	EH
MCMA	17	1645	1648	1657	S07	E33	.541	13937	20.2	12	SN		C		1648	35	.4	DL
MCMA	17	1659	1700	1701	S07	E33	.541	13937	20.2	2	SN		C		1700	35	.4	DL
MCMA	17	1823	1828	1842	S09	E28	.466	13937	19.9	19	SN		C		1828	50	.6	E
MCMA	17	1945		19490	S09	E26	.436	13937	19.8	40	SN		P		1946	40	.5	E
MANI	18	0752E	0754U	07570	S08	E19	.323		19.8	50	SN	3	V		0754	50	.6	F
TEHR	18	0754E	0759	0805	S 6	E37	.599		21.1	110	SF	3	V			48		F
ATHN	18	1037	1041	1058	N 7	W30	.545		16.2	21	SN	4	V			64		U H
RAMY	18	1323E	1325	13520	S 8	E17	.290		19.8	290	SF	4	V			32		FDE
RAMY	18	1323E	1333	13520	S 8	E17	.290		19.8	290	SN	4	V			32		FDE
MCMA	18	1334E	1335	15200	S07	E16	.274	13937	19.8	1060	SB		P		1335	110	1.2	E
MCMA	18	1730E		19050	S08	E16	.274	13937	19.9	950	SF		P		1805	100	1.1	F
MCMA	18	1905	1930	19490	S06	E20	.340	13937	20.3	440	SB		C		1930	120	1.4	E
PALE	18	1908	1926	20210	S 8	E18	.307		20.1	730	SN	3	C			140		DE
MANI	19	0328	0332	0350	S09	E09	.159		19.8	22	SN	3	P		0332	110	1.2	F
MANI	19	0451E	0451U	05030	N04	W45	.722		15.8	120	SF	3	P		0451	30	.4	
ATHN	19	0724E	0724U	07410	S 9	E 8	.142		19.9	170	SN	1	V			160		U F
ATHN	19	0724E	0724U	07410	S 9	E 8	.142		19.9	170	SN	1	C			160		U F
MANI	19	0732E	0732U	07340	S08	E07	.122		19.8	20	SN	3	V		0732	130	1.4	F
ARCE	19	0830E		0851	S07	E06	.104		19.8	210	SN		C		0833	113	1.2	TB
ARCE	19	0848E		08520	S09	E07	.126		19.9	40	SB		C		0851	37	.4	D
MCMA	19	1344	1349	1356	N05	W48	.759	13934	16.0	12	SF		C		1349	25	.4	DH
MCMA	19	1429	1434	1451	S09	E04	.078	13937	19.9	22	SB		C		1434	50	.5	E
CATA	19	1445E	1445	14500	S08	E03	.055		19.8	50	SN	1			1445	56	.6	
MCMA	19	1645	1650	1715	S09	E03	.063	13937	19.9	30	SF		C		1650	40	.4	E
MCMA	19	1851	1854	1915	S09	E01	.039	13937	19.9	24	SN		C		1854	60	.6	E
MCMA	19	1932E		19420	S07	E00	.000	13937	19.8	100	SB		C		1932	20	.2	D
MANI	20	0828	0831	0834	S08	W03	.055		20.1	6	SF	3	P		0831	30	.3	
CATA	20	1450	1450	15050	S09	W04	.077		20.3	150	SN	1			1450	28	.3	
CULG	20	2324	2326	2330	S08	W12	.207		20.1	6	SF		C		2326	60	.6	L
ATHN	21	0610	0617	0720	S 7	W20	.340	13937	19.8	70	1B	3	C			304		UDE
ATHN	21	0610	0617	0720	S 7	W20	.340	13937	19.8	70	1B	3	V			304		UDE
ATHN	21	0610	0634	0720	S 7	W20	.340	13937	19.8	70	1B	3	C			368		UDE

Hα SOLAR FLARES

NOVEMBER 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION — MIN.	IM-POR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE NOV	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
A ATHN	21	0610	0634	0720	S 7	W20	.340	13937	19.8	70	1B	3	V		368		UDE
ATHR	21	0610E	0621	0704	S 8	W21	.356	13937	19.7	540	1B	4	V		388		DE
TEHR	21	0610E	0621	0704	S 8	W21	.356	13937	19.7	540	1B	4	C		388		DE
CULG	21	0621E	0622U	0746D	S08	W22	.372	13937	19.6	850	1N		P	0622	240	2.4	F
MANI	21	0629E	0632	0701D	S05	W22	.374	13937	19.6	320	1B	3	P	0632	90	1.0	DZ
ARCE	21	0807E		0822D	S05	W26	.437		19.4	150	SN		C	0807	34	.4	
CATA	21	0810E	0810	0825D	S07	W25	.420		19.5	150	SN	1		0810	84	1.0	
CATA	21	0850E	0850	0940	S07	W25	.420		19.5	580	SN	1		0850	56	.6	
ARCE	21	0930		0930D	S06	W26	.436		19.4		SN		P	0930	24	.3	D
ARCE	22	0947		1005D	S08	W28	.466		20.3	180	SF		P	1005	34	.4	
MCMA	22	1405	1407	1410	S05	W34	.557	13937	20.0	5	SF		C	1407	50	.6	E
ARCE	23	0950	0955	0957	S04	W44	.693		20.1	7	SF		C	0955	31	.4	
ARCE	24	0855	0855	0855	S10	W67	.915		19.3		SF		C	0855	9		D

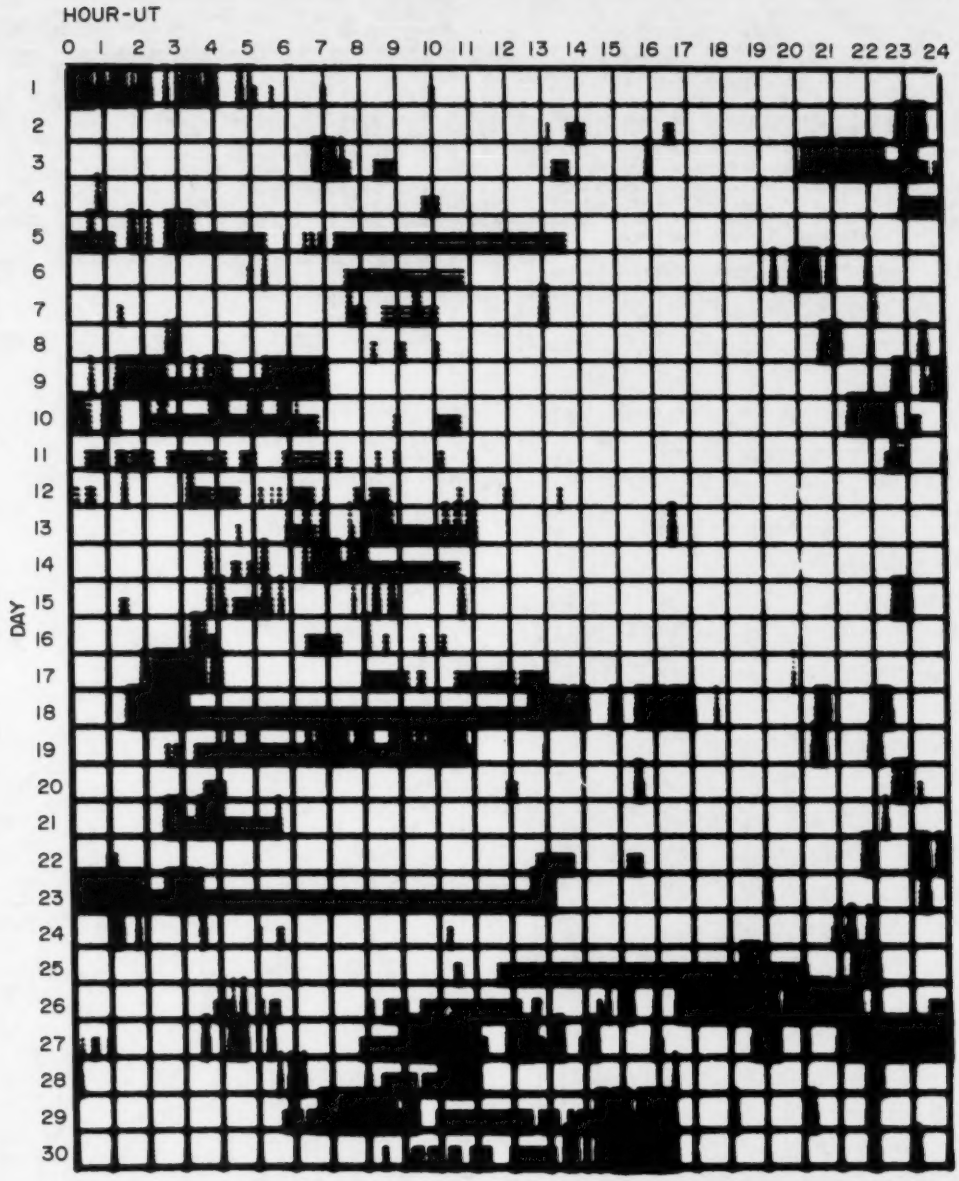
"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by a high speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H and K.
P = Flare shows helium D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in Hα line suggests ejection of high velocity material.
S = Brightness follows disappearance of filament (same position).
T = Region active all day.
U = Two bright branches, parallel (||) or converging (Y).
V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

NOVEMBER 1975



Observatories included in total patrol:

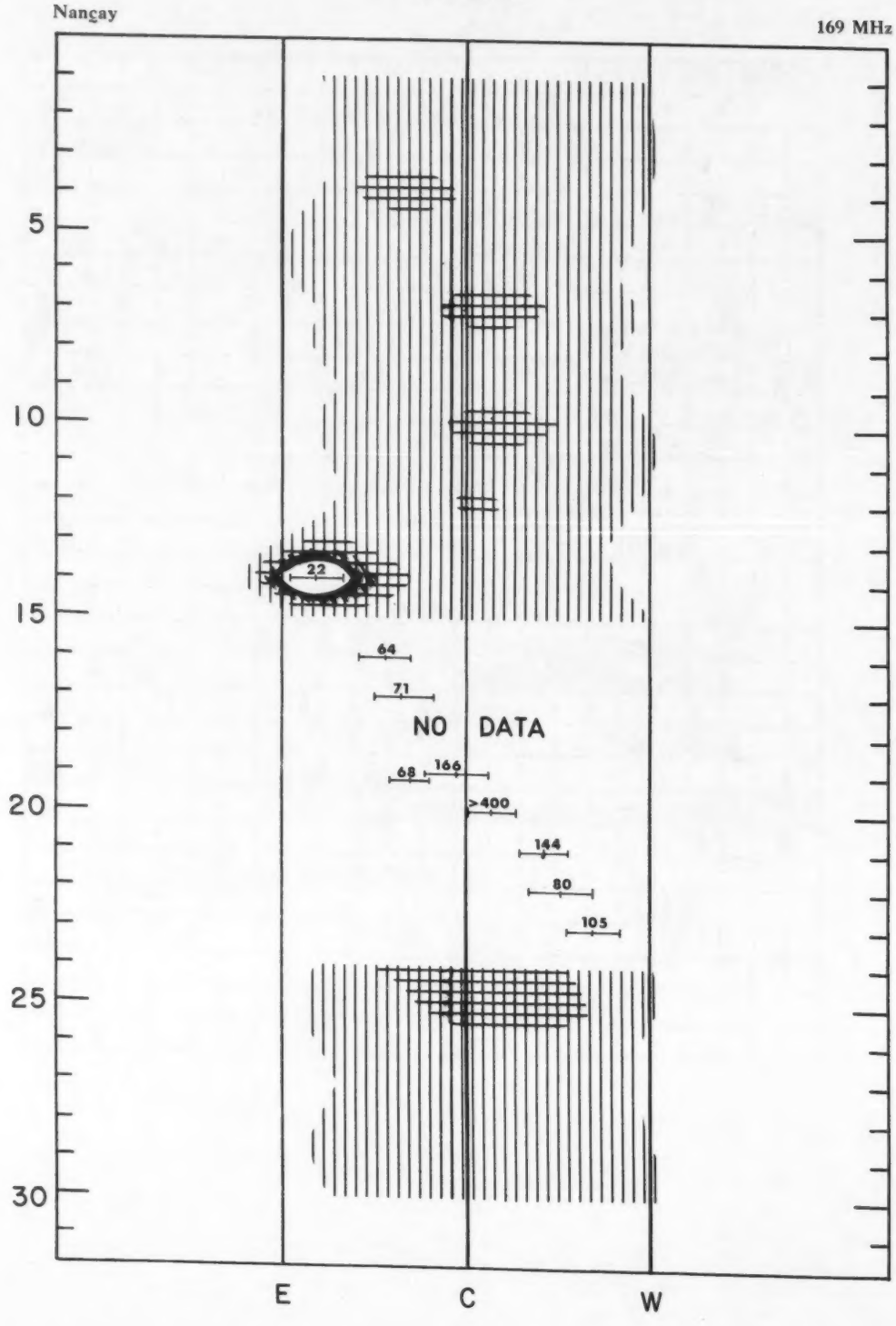
Arcetri	Catania	Hurbanovo	McMath-Hulbert	Ramey
Athenes	Culgoora	Istanboul	Mitaka	Tehran
Boulder	Herstmonceux	Manila	Palehua	Upice
				Wendelstein

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

14
Nov 75

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

NOVEMBER 1975



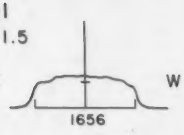
EAST - WEST SOLAR SCANS

November 1975

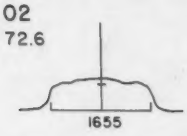
ALGONQUIN RADIO OBSERVATORY
CANADA

10.7 cm.
Fan Beam with 1.5 minutes of arc
E - W Resolution

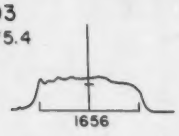
01
71.5
E W
1656



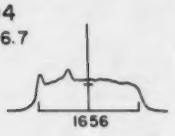
02
72.6
1655



03
75.4
1656

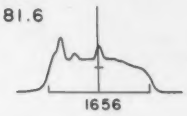


04
76.7
1656



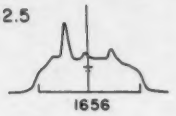
05
80.3
1656

06
81.6
1656

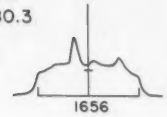


07
82.0
1656

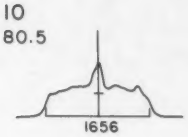
08
82.5
1656



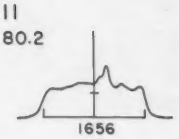
09
80.3
1656



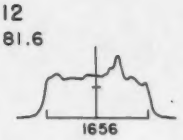
10
80.5
1656



11
80.2
1656

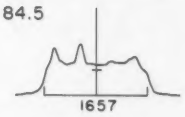


12
81.6
1656



13
80.9
1657

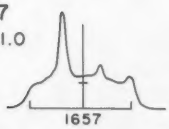
14
84.5
1657



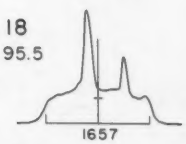
15
85.6
1657

16
89.6
1657

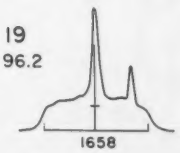
17
91.0
1657



18
95.5
1657



19
96.2
1658



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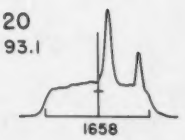

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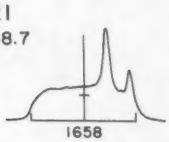

22
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DATA

23
NO
DATA

24
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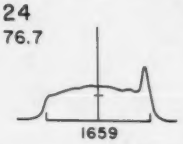
1659



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26
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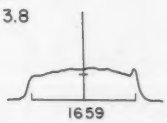

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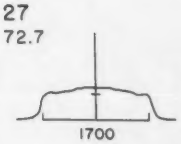

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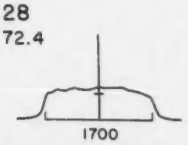

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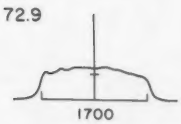

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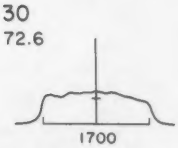
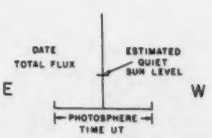




16
Nov 75

EAST-WEST SOLAR SCANS

NOVEMBER 1975

Fleurs, Australia

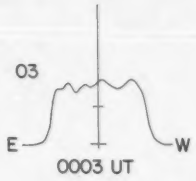
ESTIMATED QUIET SUN LEVEL

COLD SKY LEVEL

21 cm
Fan-Beam with 2 minutes of arc
E-W Resolution

01 NO DATA

02 NO DATA



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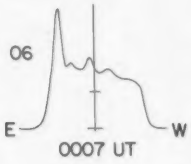

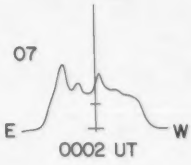

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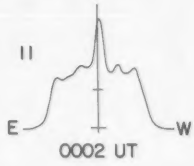
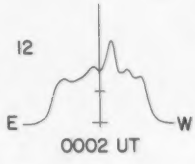
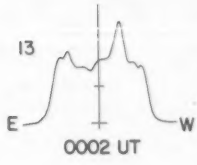
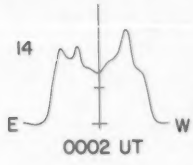
09 NO DATA









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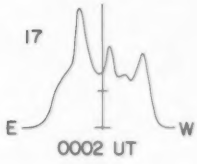
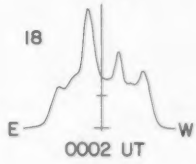
16 NO DATA





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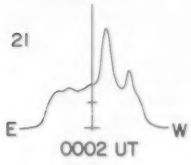

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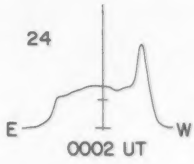
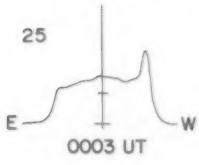




29 NO DATA

30 NO DATA

EAST-WEST SOLAR SCANS

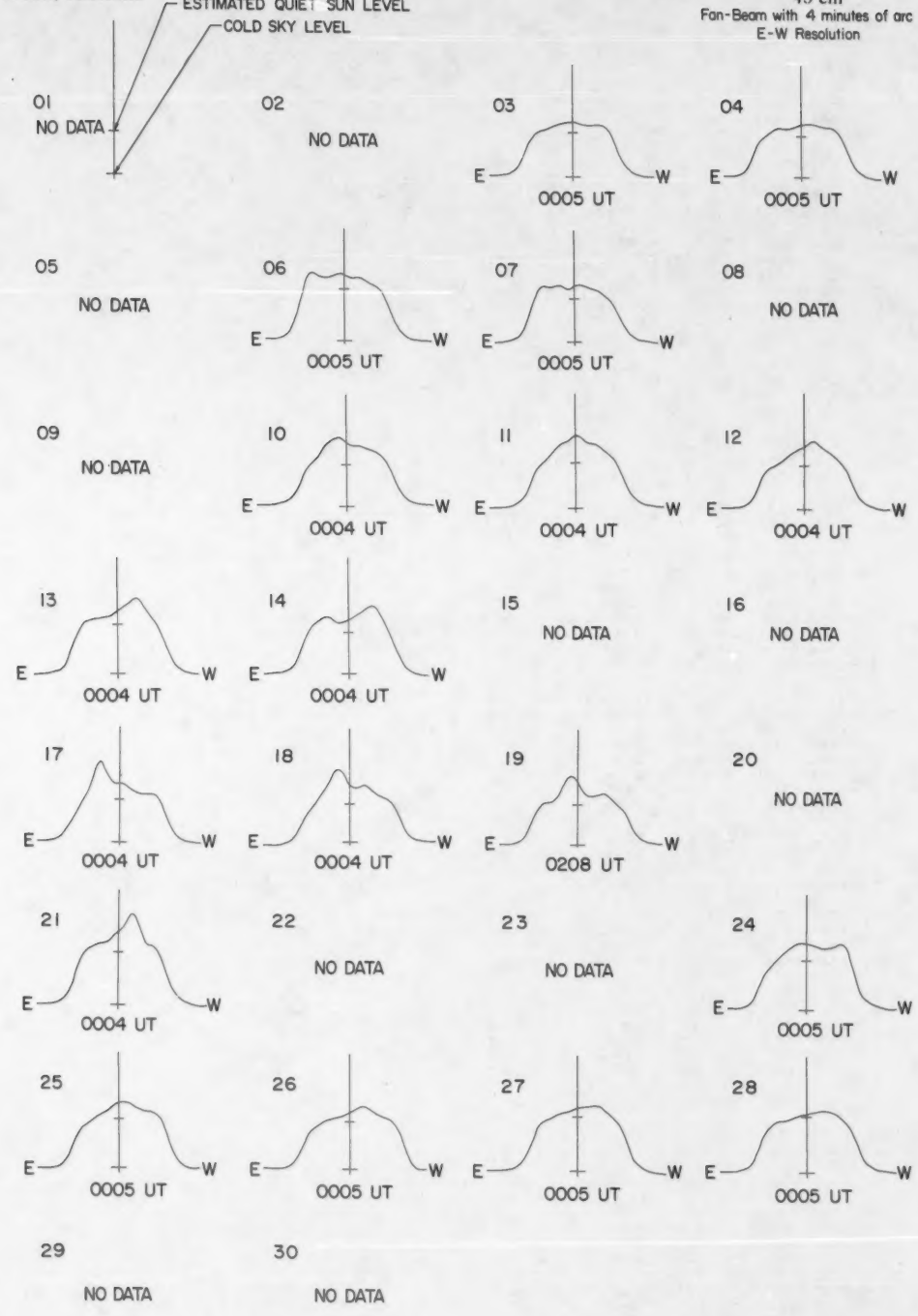
NOVEMBER 1975

Fleurs, Australia

ESTIMATED QUIET SUN LEVEL

COLD SKY LEVEL

43 cm
Fan-Beam with 4 minutes of arc
E-W Resolution



SOLAR RADIO EMISSION
SELECTED FIXED FREQUENCY EVENTS

NOVEMBER 1975

	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
4	2695	PENT	24O R	2010	2054	44	1.6	0.8		
	2695	PENT	24P R	2054		120 D	1.6			
5	2800	OTTA	8 S	1853	1853.2	0.5	3	1.5		
	2695	PENT	21 GRF	2140	2150	35	1.6	0.8		
	2695	PENT	8 S	2141.2	2141.9	0.8	0.8	0.4		
	2695	PENT	1 S	2143	2143.2	1	1.2	0.6		
6	8800	MANI	1 S	0626.2	0627.7	3.8	7.3	2.4		
	2695	MANI	4 S/F	0626.2	0627.7	5	24.2	9.4		
	2800	OTTA	23 GRF	1700	1715	70	1.2	0.6		
	2800	OTTA	1 S	1703.8	1704.2	1	1	0.5		
	2800	OTTA	20 GRF	1814	1840	40	0.6	0.3		
7	2800	OTTA	32 ABS	1430	1442	46	-1.6	-0.8		
8	2800	OTTA	1 S	1851.7	1852	2.5	0.8	0.4		
	2800	OTTA	20 GRF	1919	1922	23	1	0.8		
9	2800	OTTA	1 S	1922.9	1924.5	3	0.8	0.4		
10	2800	OTTA	20 GRF	1300	1345	80	2.4	1.4		
	2800	OTTA	20 GRF	1425	1435	75	2.8	1.4		
	2800	OTTA	1 S	1911.8	1912	1.5	1.4	0.7		
14	8800	MANI	4 S/F	0405	0410.2	14	340	95		
	2695	MANI	4 S/F	0405	0411.5	14.8	129	42.5		
15	2800	OTTA	20 GRF	1620	1710	75	0.8	0.4		
	2800	OTTA	21 GRF	1840	1937	240 D	11			
	2800	OTTA	1 S	1842.5	1842.9	1.5	2.6	0.9		
	2695	BOUL	45 C	1847.5	1848	2.5	2	1		
	2800	OTTA	45 C	1848	1849.5	7	4.6	2		
	2695	BOUL	40 F	1912.5	1914	25.5	4	1		
	2800	OTTA	40 F	1913	1914	22	5.4			
	2695	PENT	20 GRF	2140	2147	20	1.2	0.6		
16	8800	MANI	20 GRF	0540.2	0544.5	22.3	49.7	21.6		
	2695	MANI	46 C	0538.4	0544.4	26.2	152	47		
	2800	OTTA	21 GRF	1435	1455	110	4.6	2.3		
	2800	OTTA	1 S	1455	1455.2	2	3	1.5		
	2800	OTTA	20 GRF	1720	1722	18	1	0.5		
	2800	OTTA	20 GRF	1900	1907	28	1	0.5		
	2800	OTTA	21 GRF	2010	2018	40	1.6	0.8		
	2695	BOUL	1 S	2013.5	2014.5	1.5	3	1		
	2800	OTTA	2 S/F	2014.2	2015.1	1	3	1.7		
	2695	PENT	24O R	2050	2118	18	1.2	0.6		
	2695	PENT	24P R	2118		28	1.2			
	2695	PENT	24O R	2136	2144	8	2.4	1.2		
	2695	PENT	24P R	2144		60 D	2.4			
17	8800	MANI	1 S	0521.1	0523.9	8.9	5	2.5		
	2695	MANI	1 S	0521.1	0523.8	8.9	2.5	.6		
	2800	OTTA	20 GRF	1300 E	1410	185 D	6.6			
	2800	OTTA	24O R	1700	1715	15	1.2	0.6		
	2800	OTTA	24P R	1715		55	1.2			
	2800	OTTA	24O R	1810	1825	15	1.6	0.8		
	2800	OTTA	24P R	1825		240 D	1.6			
	2800	OTTA	8 S	1843	1843.1	0.5	3.2	1.6		
	2695	PENT		1843	1843.1	0.5				NULL
	2800	OTTA	1 S	1944.2	1945	5	1.2	0.6		
	2695	PENT	20 GRF	2000	2005	15	1	0.5		
	2800	OTTA	1 S	2018.9	2019	1.5	0.8	0.4		
	2800	OTTA	20 GRF	2025	2040	30	1	0.5		
18	2800	OTTA	23 GRF	1309	1359	290	9	4.5		
	2800	OTTA	8 S	1314	1314.3	0.5	1.2	0.6		
	2800	OTTA	1 S	1330	1330.5	1.5	1.6	0.8		
	2800	OTTA	23 GRF	1855	2028	220 D	10.6			
	2800	OTTA	40 F	1907	1921.5	23	2.6			
19	8800	MANI	1 S	0329.5	0331.2	3.2	8.8	2.9		
	2695	MANI	1 S	0328.9	0331.2	5.3	6.9	3.2		
	2695	MANI	4 S/F	0721.7U	0724.5	6 U	12.6	6.3U		RFI
	2800	OTTA	21 GRF	1325	1345	92	1	0.5		
	2800	OTTA	2 S/F	1339	1340	2	0.8	0.4		
	2800	OTTA	22 GRF	1600	1630	80	2.2	1.1		
	2800	OTTA	27A RF	1727		183	1.8	1.4		
	2800	OTTA	24 R	1727	1755	28	1.8	0.9		
	2800	OTTA	24P R	1755		115	1.8			
	2800	OTTA	21 GRF	1845	1858	25	1.8	0.9		
	2800	OTTA	8 S	1847.8	1847.8	0.1E	1.7			
	2695	PENT	20 GRF	1850	1851	14	2	0.9		
	2800	OTTA	46F C	1849	1849.9	4.5	10.6	2.4		

SOLAR RADIO EMISSION
SELECTED FIXED FREQUENCY EVENTS
NOVEMBER 1975

	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
	2800	OTTA	26 FAL	1950	2130	40	-1.8	-0.9		
	2695	PENT	1 S	2101.5	2103	10	0.8	0.4		
20	2800	OTTA	27F RF	1305		210	2	1.7		
	2800	OTTA	24 R	1305	1340	35	2	1		
	2800	OTTA	24P R	1340		140	2			
	2800	OTTA	26 FAL	1600	1635	35	-2	-1		
	2800	OTTA	27F RF	1700		130	1.2	0.8		
	2800	OTTA	24 R	1700	1750	50	1.2	0.6		
	2800	OTTA	24P R	1750		50	1.2			
	2800	OTTA	26 FAL	1840	1910	30	-1.2	-0.6		
	2800	OTTA	20 GRF	1935	1950	35	1.6	0.6		
	2800	OTTA	20 GRF	2045	2050	15	0.8	0.4		
21	2695	MANI	28 PRE	0605.8	0614	8.7	16	5.7		
	2695	MANI	8 S	0615.5	0615.9	.6	95	35.7		
	8800	MANI	4 S/F	0607.9	0619.1	57.9	89	47.4		
	2695	MANI	46 C	0614.5	0618.8	49.4	190	95		
	8800	MANI	29 PBI	0705.8	0705.8	47	25.3	15.8		
	2695	MANI	29 PBI	0703.9	0703.9	55.1	30.2	11.4		
	2695	BOUL	45 C	1817	1819.5	9.5	65	23		
23	2800	OTTA	1 S	1441	1442	3	0.8	0.4		

Observatories:

BOUL = Boulder MANI = Manila OTTA = Ottawa ARO PENT = Penticton

Explanation of Type Code:

1 Simple 1	6 Minor	22 Simple 3F	27 Rise and Fall	32 Absorption	44 Noise Storm in Progress
2 Simple 1F	7 Minor +	23 Simple 3AF	28 Precursor	40 Fluctuation	45 Complex
3 Simple 2	8 Spike	24 Rise	29 Post Burst Increase	41 Group of Bursts	46 Complex F
4 Simple 2F	20 Simple 3	25 Rise A	30 Post Burst Increase A	42 Series of Bursts	47 Great Burst
5 Simple	21 Simple 3A	26 Fall	31 Post Burst Decrease	43 Onset of Noise Storm	48 Major
					49 Major +

Note: The report from Sagamore Hill is not included here because of late arrival of data.

SOLAR WIND

Interplanetary Scintillations

NOVEMBER 1975

UCSD 74MHZ SCINTILLATIONS

DAY	3C48		3C144		3C147		3C161		3C237		3C273		3C298		3C459	
	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR
1	334	62											425	107		
2	372	24									366	24	502	179	366	35
3	365	23					496	170					750	366	367	25
4	319	47									633	98	661	260		
5	386	33									711	*	935	377		
6	318	127	281	77							824	209	818	227		
7													721	281		
8											511	135	641	198		
9			717	212					534	147						
10	431	*			446	*					475	*			367	18
11	329	*	440	*			453	*			601	*	674	*	438	*
13			282	120									442	70		
14													376	*		
15											595	118	429	89		
16													558	153		
17	379	34	519	78												
18	363	48	445	46	482	*									285	92
19	363	60	463	25			790	313							239	20
21													596	122	274	119
22															323	34
23	335	46							507	63						
24	303	*														
25	359	88											468	108		
26											622	121				
27													545	129		
28			418	92												
29	385	18	382	31							625	84	575	75	413	13
30	306	8					354	*							529	18

NOVEMBER 5					15				25			
	UT	LAT	DIST	DLON	UT	LAT	DIST	DLON	UT	LAT	DIST	DLON
3C48	7.	8.	1.28	-1.	6.	8.	1.27	-3.	6.	7.	1.26	-5.
3C144	11.	2.	1.24	9.	10.	1.	1.27	7.	10.	0.	1.29	5.
3C147	10.	9.	1.22	9.	9.	8.	1.24	8.	9.	6.	1.26	6.
3C161	12.	-4.	1.18	10.	12.	-5.	1.21	8.	11.	-6.	1.23	6.
3C237	16.	0.	0.95	17.	15.	0.	1.00	17.	15.	-1.	1.06	16.
3C273	18.	3.	0.61	52.	17.	1.	0.74	42.	17.	0.	0.85	32.
3C298	20.	47.	0.39	59.	19.	31.	0.50	56.	18.	20.	0.62	50.
3C459	4.	6.	1.21	-11.	4.	6.	1.17	-13.	3.	5.	1.13	-14.

* indicates data for which no error estimate is available, because only two antennas were operating.

SOLAR X-RAYS BY SATELLITE
SMS GOES
NOVEMBER 1975

.5 - 4Å Hourly Averages (10^{-6} watts/m^2)

MO DA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
11/ 1	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B
11/ 2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.05	B	B	B	B	B
11/ 3	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/ 4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/ 5	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/ 6	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/ 7	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/ 8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.48	0.02
11/ 9	B	B	B	B	B	B	0.06	B	M	B	B	B	M	M	B	B	B	B	B	B	B	M	B	0.13	B
11/10	B	B	B	B	B	B	B	B	B	B	B	M	M	M	B	B	B	B	0.01	0.59	B	B	B	B	0.03
11/11	B	B	B	B	B	B	0.05	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/12	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/13	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	B	B	B	B	0.20	B	B	M	B	B
11/14	B	B	B	B	B	B	B	0.03	0.07	B	0.29	M	M	M	M	B	B	B	B	B	B	B	B	B	0.02
11/15	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	0.01	B	B	B	B	B
11/16	B	B	B	B	B	0.03	0.01	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/17	B	B	B	B	B	B	B	B	B	B	B	0.01	0.02	B	B	B	B	B	B	B	B	M	B	B	B
11/18	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01	0.02	B	B	B	B
11/19	B	B	B	B	B	B	B	B	B	M	M	M	M	M	B	B	B	B	B	B	B	B	B	B	B
11/20	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.03	B	B	0.03	B
11/21	B	B	B	B	B	B	0.10	0.02	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/22	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/23	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.06	B	B	B	B	B
11/24	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	B	0.09	B	B	B	B	B
11/25	B	B	M	B	B	B	0.09	B	B	B	B	B	B	B	B	M	M	B	B	B	B	B	B	B	B
11/26	B	B	B	B	B	B	0.07	B	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/27	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/28	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/29	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/30	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B

Note: "B" indicates the flux was below the cut-off levels.
"M" denotes periods of missing data.

SOLAR X-RAYS BY SATELLITE
SMS GOES
NOVEMBER 1975

1 - 8Å Hourly Averages (10^{-5} watts/m^2)

MO DA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
11/ 1	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B
11/ 2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.06	B	B	B	B	B
11/ 3	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/ 4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/ 5	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01	B	B	B	B	B
11/ 6	B	0.01	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/ 7	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/ 8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.08	0.01
11/ 9	B	B	B	B	B	B	0.07	B	M	B	B	B	M	M	B	B	B	B	B	B	B	M	B	0.06	B
11/10	B	B	B	B	B	B	B	B	B	B	B	M	M	M	B	B	B	B	0.04	0.95	B	B	B	B	0.04
11/11	B	B	B	B	B	B	0.05	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/12	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/13	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	B	B	B	B	0.24	B	B	M	B	0.01
11/14	B	B	B	B	0.01	B	B	B	0.02	0.02	0.20	M	M	M	M	0.06	B	B	B	B	B	B	B	B	0.02
11/15	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	0.03	0.02	0.01	B	B	B
11/16	B	B	B	B	B	0.03	0.03	B	B	B	B	B	B	B	B	0.02	B	B	B	B	B	0.01	0.03	B	B
11/17	B	B	B	B	B	0.01	B	B	B	B	B	0.01	0.04	0.01	0.01	B	B	B	B	B	B	M	B	B	B
11/18	B	B	B	B	B	B	B	B	B	B	B	0.01	B	0.01	0.02	0.01	B	B	B	0.03	0.07	0.03	0.02	0.01	B
11/19	B	B	B	B	B	B	B	0.01	B	M	M	M	M	M	B	B	B	B	B	B	B	B	B	B	B
11/20	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.05	B	B	0.03	B
11/21	B	B	B	B	B	B	0.12	0.05	0.02	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/22	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/23	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.06	B	B	B	B	B
11/24	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	B	0.09	B	B	B	B	B
11/25	B	B	M	B	B	B	0.09	B	B	B	B	B	B	B	B	M	M	B	B	B	B	B	B	B	B
11/26	B	B	B	B	B	B	0.07	B	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01	B
11/27	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/28	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/29	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/30	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B

Note: "B" indicates the flux was below the cut-off levels.
"M" denotes periods of missing data.

SOLAR X-RAYS BY SATELLITE

SMS GOES

NOVEMBER 1975

DAY	BEGIN TIME	.5-4A Wm^{-2}	1-8A Wm^{-2}	MAX TIME	.5-4A Wm^{-2}	1-8A Wm^{-2}	1/2P TIME	.5-4A Wm^{-2}	1-8A Wm^{-2}
5	1844	0.0E+00	4.0E-08	1904	2.6E-07	4.7E-06	1910	7.1E-08	2.4E-06
6	0113	8.6E-10	3.6E-07	0120	4.8E-07	6.1E-06	0124	9.2E-08	3.3E-06
6	0918	1.5E-10	1.9E-07	0924	2.7E-07	3.9E-06	0928	6.4E-08	2.0E-06
14	0404	0.0E+00	1.4E-07	0412	7.3E-07	7.2E-06	0420	1.4E-07	3.6E-06
15	1139	0.0E+00	1.0E-07	1147	2.2E-07	4.1E-06	1156	4.3E-08	2.1E-06
15	1844	5.0E-09	2.4E-07	1956	7.5E-07	4.1E-06	2042	4.3E-08	2.2E-06
16	0536	9.9E-09	4.5E-07	0551	1.0E-06	1.1E-05	0610	2.5E-07	5.5E-06
16	1113	3.6E-09	4.4E-07	1119	3.2E-07	4.1E-06	1121	1.7E-08	2.3E-06
16	2146	8.6E-08	2.3E-06	2202	7.1E-08	3.3E-06	2204	6.7E-08	2.8E-06
21	0608	4.2E-09	3.3E-07	0629	2.0E-06	2.3E-05	0656	5.6E-07	1.2E-05

INFERRED IP MAGNETIC FIELD

BARTELS ROTATION	DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1901	JUL 23	TA	A*	TAA*	T	A*	T	A	A	A	A	A	A	T	A*	TAT	T	T	A	A	A	TAA	T	-	AT	A	T	T	T	T	T	T	T	T	A	T	T	T	T	T	T	A	A	TA-
1902	AUG 19	A	-	A	-	A	A	A	A	A	A	A	A	A	TAT	A	A	A	A	A	A	A	A	T	T	A	A	A	A	A	A	T	T	T	T	T	T	T	TA	A	A	A	TAT	A	A	A	A	TA	A	A	-
1903	SEP 15	A	A	TA	T*	A	A	A	A	A	A	AT	A	A	A	A	A	T	T	A	AT	A	A	A	A	-	A	-	A	-	A	-	A	-	A	T	T	T	T	T	T	T	T	A	-	T	T	T	A	AT	A	TA	A	A	T
1904	OCT 12	T	T	A	-	TA	-	A	A*	A	T	A	T	TA	T	A	A	A	A	A	T	TA	A	TA	A	AT	A	AT	A	A	A	T	AT	T	T	A	AT	A	T*	T	T	A	-	A	A*	T	AT	T	T	TA	T	TA*	A	A
1905	NOV 8	A	A	T	A	AT	A	AT	AT	TA	AT	T	AT	A	T	TAT*	A	A	A	A	A	A*	TA	AT	A	A	A	A	TA	AT	T	T	A	T	TA	TA	A	T	A	T	AT	T	A	A	TA	A	A	A	A	A	AT	AT	T	T
1906	DEC 5	T	T	T	T	TA	AT	T	-	T	-	T	T	T	T	A	AT	A	-	TA	T	TA	T	A	A	AT	-	A	-	A	T	T	TA	A	A	T	T	T	T	T	T	A	A*	A	T	T	T	T	T	T	TA	AT	TA	T
1907	1973 JAN 1	T	T	T	T	T	T	T	TA	T	T	T	A	T	AT	-	A	AT	A	T	A	-	AT	-	A	TA	A	A	A	A	A	A	A	A	A	A	A	A	T	T	A	-	T	-	T	T	T	-	TA	T	T	-	T	T	T	T
1908	JAN 28	T	T	A	A	T	T	TA	T	AT	T	T	T	T	A	T	A	A	A	A	A	TA	A	A	A	A	A	A	AT	T	TA	A	AT	A	TA	A	AT	AT	-	A	A	A	A	T	T	T	AT	T	T	T	T	T	T	T
1909	FEB 24	AT	T	AT	T	AT	TA	A	T	T	T	T	-	AT	TA	AT	A	T	A	T	T	A	A	A	A	A	A	A	A	AT	TA	A	A	T	A	AT	TA	A	A	T	A	TA	A	T	T	T	T	T	T	T	T
1910	MAR 23	T	T	T	T	T	T	A	T	T	T	T	T	T	T	TA	A	T	A	T	TA	A	A	A	A	A	-	A	A	A	A	A	T	TA	A	A	A	A	A	A	AT	AT	T	-	T	-	T	T	A	T	T	T	T	AT	T	T*
1911	APR 19	T	T	T	AT	T	T	-	A	T	T	T	AT	T	A	A	A	AT	T	T	T	TA	A	A	A	A	A	AT	A	A	A	-	AT	A	TA	A	A*	-	T	A	A	T	TA	T	T*	-	AT	A	A	T	T	-	A	-	T	A	A*
1912	MAY 16	T	T	T	T	T	T	T	T	AT	T	-	T	-	TA	T	T	A	A	A	AT	AT	T	T	AT	A	A	A	-	A	A	A	-	A	A	A	A*	A	A	A	A	A	A	A	A	A	A	-	T*	A	-	A	A	A	-	-	T	T	T	T
1913	JUN 12	TA	T*	-	T	*	-	T	T	TA	T*	A	A	T	T	-	T*	T	T*	T	T	T	T	AT	AT	A	A	A	A	TA	T	*	-	T	T	-	A	A	A	A	A	A	A	A*	A	AT	T	-	T	T	A	A	-	A	T	T
1914	JUL 9	T	T	T	T	A	A	T	T	-	T	AT	A	T	T	A	T*	-	A	A	AT	*	-	A	A	T	T	A	TA	-	T	T	T	T	T	A	A	-	A*	A	A	A	A*	A	TA	-	A	A	TA	T	T*	T	T*	T	T
1915	AUG 5	T	T	A	A	A	A	T	AT	A	A	A	T	T	T*	T	T	AT	*	T	AT	T	T	A	A	AT	T	T	A	A	A	TA	T	T	T	T	A	A	A	A	A	A	AT	A	A*	A	AT	A	A	A	A	T	TA	A	A*	A	A
1916	SEP 1	T	TA*	T	T	T	T	A	AT	A	A	A	TA*	A	A	A	*	T	T	T	T	T	T	T	T	A	A	A	A	T	T	T	T	T	T	T	A	T	T	T	A	A	A	A*	T	A	A	T*	A	A	A	A	TA	A*	A	A
1917	SEP 28	A	A*	TA	A	T	AT	T	T	A	A	A	A	A	A	T	A	ATA*	AT	T*	AT	AT	T	T	T	T	T	T	T*	T	T	T	T	T*	T	T*	AT	T	TA	A	A	T	-	A*	A	A	A	A	A	T	AT	A	AT	T	T
1918	OCT 25	T	T	T	T	A	TA	A	A	A	T	A	T*	T	A	T	A	A	A	A	A	A	T	A	TA	T	T	T	AT	T	T	T	T	T	T	TA	T	T	T	T	*	A	A	A	A	ATA	AT	TA	A	T	A	-	A	A
1919	NOV 21	A	*	T	T	T	-	A	A	A	A	AT	T	A	T	A	T*	A	TA	A	A	A	A	A	A	T	TA	T	T	T	T	T	T	T	*	T	T	T	T	TA	TA	A	A	T	T	T	-	T	A	A	TA	A	A	T	T
1920	DEC 18	T	T	AT	A	A	T	A	T	A	TA	A	T	A	*	A	A	A	*	AT	T	T	T	T	T	T	T	T	T	*	T	T	T	T	T	T	T	T	A	T	AT	T	T	A	T	T	T	T	T	AT	TA	T	T	T	A	T	AT	T
1921	1974 JAN 14	T	A	A	T	-	T	T	A	A	T	A	A	A	A	A	A	-	A	A	-	AT	-	T	T	T	TA	T	T*	A	T	T	T	T	T	T	A*	AT	T	AT	T	T	A	T	-	T	T	T	T	T	T	T	TA	A
1922	FEB 10	A	-	A	-	A	*	A	A	A	A	A	A	A	A	TA	T	A	A	A	A	A	T	*	T	T	T	T	T	T	T	T	A	T	-	T	T	T	T	T	T	TA	T	T	T	T	T	T	T	T	T	A	A	A	A
1923	MAR 9	A	A	A	A	A	A	A	A	A	A	A	A	A	A	T	T	TA	TA	A	AT	A	A	A	A	A	T	A	T	TA	T	A	T	A	A	T	A	A	T	A	A	T	A	TA	T	T	TA	T	TA	TA	TA	TA	-	A	TA
1924	APR 5	A	A	A	A	A	-	TA	A	A	A	A	A	A	A*	A	A	A	A	A	A	A	A	T	T	TA	TA	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	A	TA	A	AT	T	A	A	A	-	-	-
1925	MAY 2	-	-	A	A	A	A*	AT	T	A	AT	AT	T	A	T*	TA	A	A	A	TA	T*	A	A*	AT	AT	T	T	T	T	T	T	T	T	TA	T*	T	T	T	T	T	T	T	TA	-	T	T	TAT*	T	T	A	-	-	-
1926	MAY 29	T	T	A	A	A	*	-	A	A	A	A	*	A	A	*	-	TA	*	A	A	A	A	T	T	T	TA	TA	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	AT	*	-	T
1927	JUN 25	TA	TA	A	A	-	A	-	A	A	T	A	A	A	A	A	A	A	A	A	-	TA	TA	-	T	T	T	T	T	T	T	T	-	T	T	-	T	T	T	T	T	T	T	T	A	AT	AT	T	T	T	T	T	T
1928	JUL 22	T	T	A	A	A	A	AT	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-	T	-	T	-	T	-	T	-	T	-	AT	-	AT	-	T	-	TA	-	T	-	T	-	T	-	T	-	T	-
1929	AUG 18	AT	-	A	-	A	-	A	-	A	-	A	-	A	-	AT	-	TA	T	T	T	T	T	T	T	T	T	TA	A	T	T	T	T	AT	T	T	T	TA	A	AT	-	T	T	T	T	T	T	-	A	-
1930	SEP 14	AT	T	T	TA	AT	A*	A	A	A	A	A	A	A	TA	A	TA	A	A	A	AT	T	T	TA	A	T	T	AT	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1931	OCT 11	T	T	TA	T	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AT	A	A	A	TA	A	A	A	T	T	AT	-	T	T	AT	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	TA	T	T	T
1932	NOV 7	TA	-	T	-	A	-	A	-	A	A	A	A	A	A	A	A	A	A	-	A	-	AT	-	TA	A	T	T	T	T	T	T	T	A	T	*	T	A	T	T*	AT	T	T	T	T	T	T	T	TA	T	A	T	T	T
1933	DEC 4	T	T	TA	T	T	A	TA	A	A	T	A	T	A	*	ATT*	A	T	A	*	A	T	A	A	A	A	A	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	A	*	A	T	A	A	A	A	AT	TA
1934	DEC 31	T	A	T	T	T	T	A	TA	A	T	A	T	A	-	A	-	TA	T	A	A	AT	-	A	A*	A	*	T	T	T	T	T	T	T	T	T	T	T*	T	T	T	T	T	T	T	T	T	*	A	A	A	A	TA*	A	A
1935	1975 JAN 27	T	T	T	T	A	T	AT	T	A	A*	A	T	-	TA	A	A	T	A	T	A	T	A	T	A	T	-	T	T	T	T	T	AT	T	T	T	T	T	T	T*	T	-	TA	A	T	A*	AT	T	A	TA	TA	T	A	A	A
1936	FEB 23	TA	A	A	A	A	A*	TA	A	A	AT	A	A	A	A	A	A	A	A	A	AT	T	A	A	A	A	A	T	T	T	T	T	A	T	A	T*	T	T	T	T	T	TA	T	A*	T	T	T	T	A	T	*	T	T	T	T	A	A
1937	MAR 22	A	A	A	A	TA	A	T	T	A	A*	A	A	A	A	A	A	A	AT	A*	T	A	A	A	T	*	TA	T	T	T	T	T	T	*	T	A	*	T	T	A	AT	A	T	T	T	A	T	A	A	T	T	T	T	A	A	A
1938	APR 18	A	A	A	A	A	A	A	A	A	*	A	A*	A	A	-	A	A	A	A	A	A	A	A	T	T	A	A	A	A	T	T	-	T	T	T	-	T	T	T	T	T	A	A*	T	T	T	T	-	A	T	AT	T	T	TA	T
1939	MAY 15	T	T	A	A	TA	TA	A	A	A	A	T	T	TA	TA	-	*	A	A	A	A	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	-	*	-	*	-	**	T	T	T	T	A	A
1940	JUN 11	A	A	A	A	A	A	A	A	A	A	*	-	-	-	-	-	-	-	A	A	A	A	TA	A	A	AT	A	A	A	A	A	A	A	T	T	T	T	T	A	A	TA*	A	A	T	T	T	T	T	T*	T	T*	T	T
1941	JUL 8	A	A	A	A	A	A	A	A	A	TA	A	A	A	TA*	A	A	TA	TA	A	A	T	T	A	A	A	A*	-	*	A	A*	A	T	A	A	T	T	T	TA	A	AT	T	T	T	T	T	T	T	AT	AT	A	A	A	A
1942	AUG 4	A	A	A	A	A	A	T	A	A	T	T	AT	T	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	T	T	T	-	A	T	T	*	T	T	TA	T	T	T	T	T	T	-	AT	AT	T	T	T	A	A	A
1943	AUG 31	A	A	A	A	TA	A*	T	T	A	A	A	A	TA	A	T	T*	A	A	A	A	A	A	A	A	A	A	A	A	*	A	A	A	A	A*	A	A*	A	T	T	T	T	T	T	-	T	TA	T	T	T	T	T	T	A	T	A	A
1944	SEP 27	A	A	T	A	A	A	A	A	A	T	T	T	A	T	-	A	-	A	-	A	A*	A	A	A	A	A	A	*	AT	A	T	T	A	A	A	A	A	AT	*	T	A	T	T	T	A	T	T	T	T	T	T	T	TA	A	A	-
1945	OCT 24	T	T	T	T	T	T	T	T	T	T	TA	A	A	A	*	A	A	A	A	A	A	A	A	A*	A	*	A	A	A	A	*	AT	-	AT	-	AT	T	AT	T	T	T	T	T	T	T	T	T	T	A	T	*	T	T	T	T	T
1946	NOV 20	A	T	A	*	T	T	TA	T	T	A	A	T*	A	TA	A	A	A	-	A	-	A	-																																				

T = towards the sun
A = away from the sun
* = effect doubtful or not discernable
- = missing data

The table shows daily inferences of the polarity of the interplanetary magnetic field. The first half of the day is based principally on magnetograms produced by the magnetometer at the Vostok Antarctic Station of the USSR. The magnetometer of the U.S. Air Weather Service operated by the Air Force Cambridge Research Laboratories at the Thule Geopole Station is used for the second half of the day.

SGD 376 Part I (Prompt)

OCTOBER 1975 DATA

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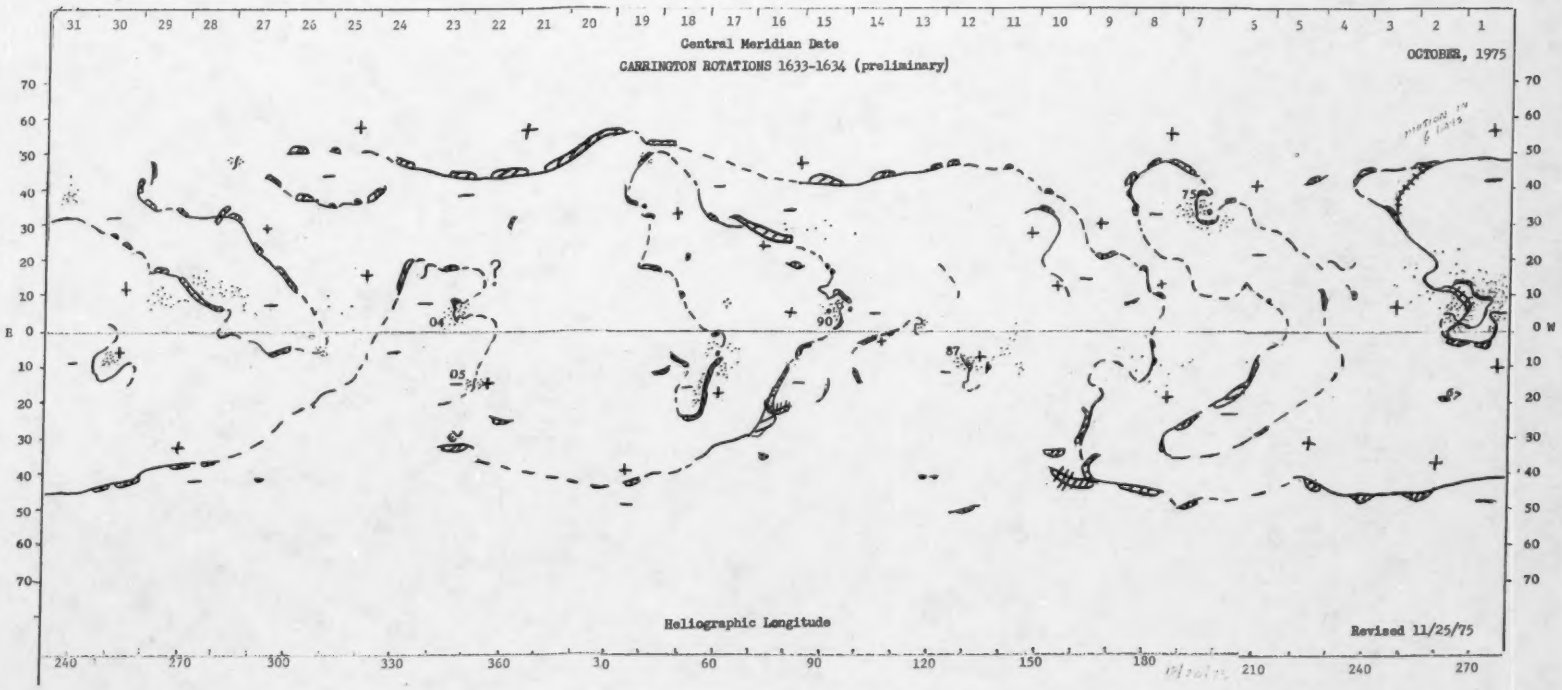
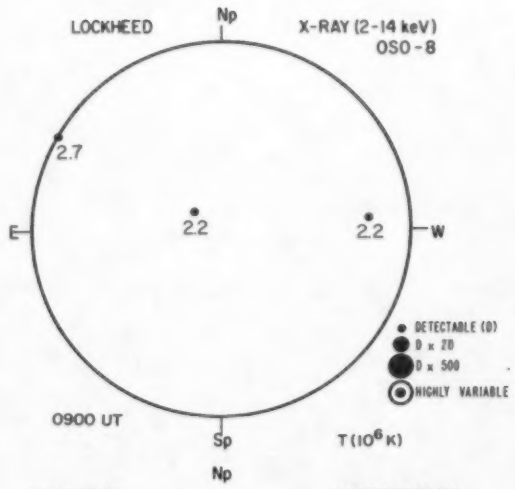
Hα SYNOPTIC CHART

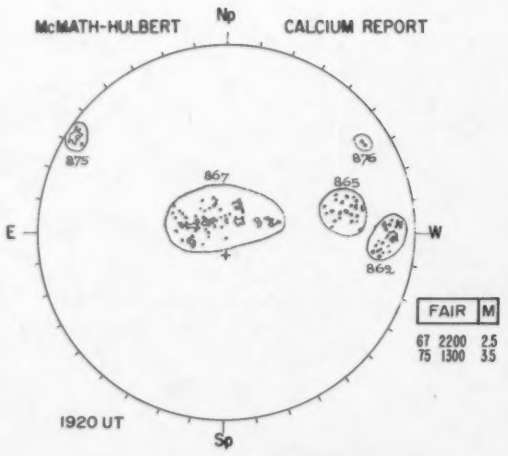
OCTOBER 1975

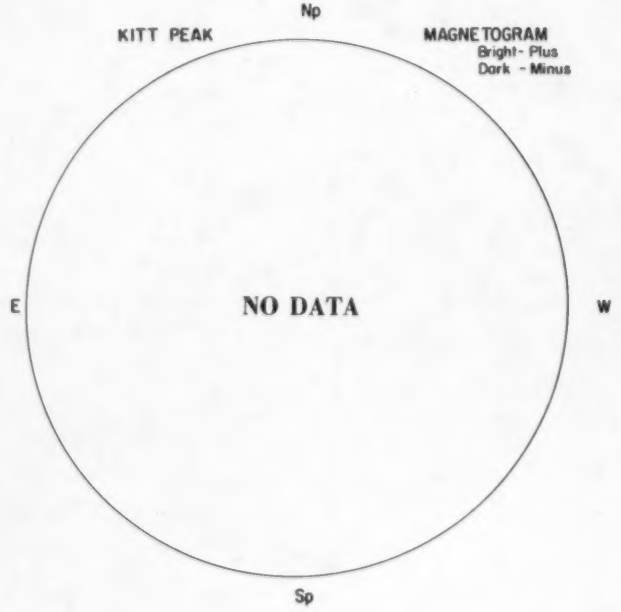


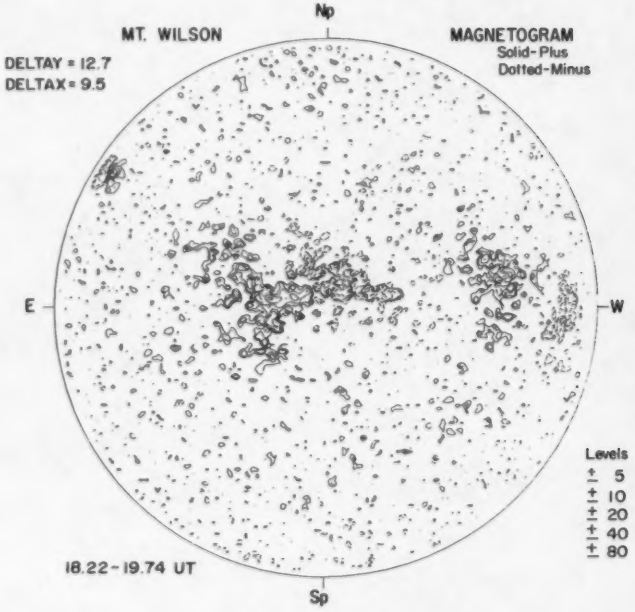
27 Oct 75

OCTOBER 1, 1975 (P=25.98, B_0=6.73, L_0=281.43)









01
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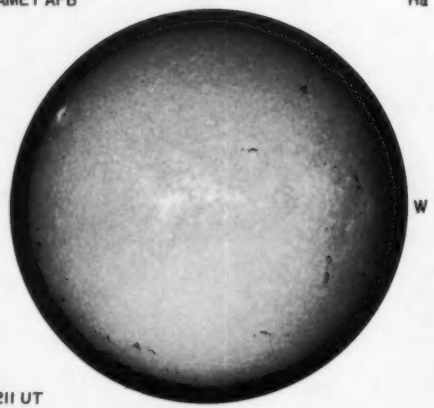
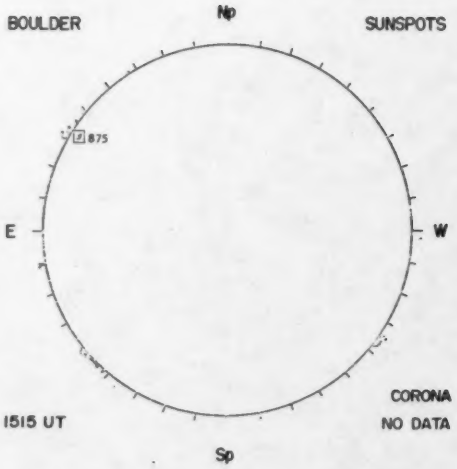


1211 UT

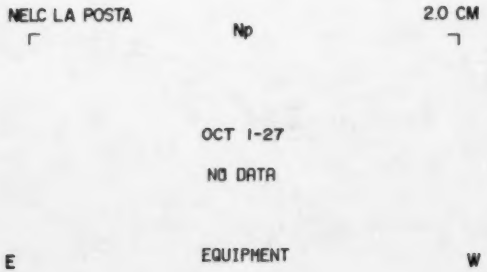
BOULDER



1515 UT

CORONA
NO DATA

NELC LA POSTA



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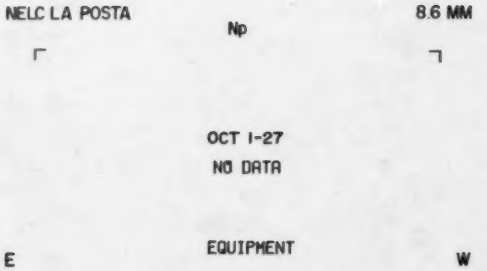

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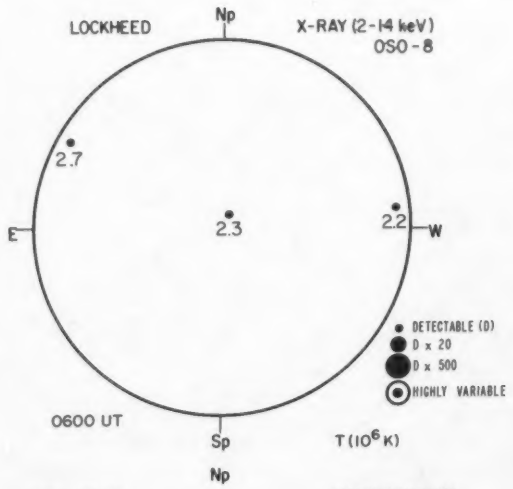

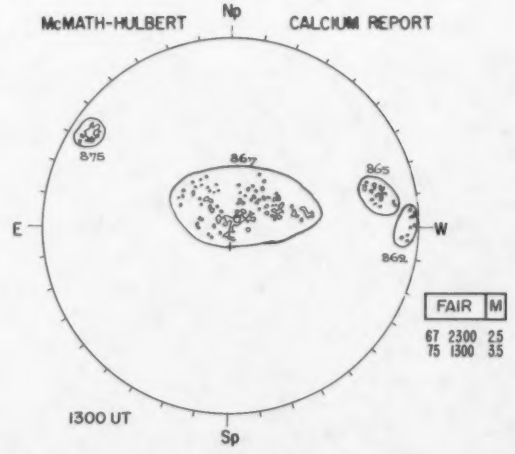

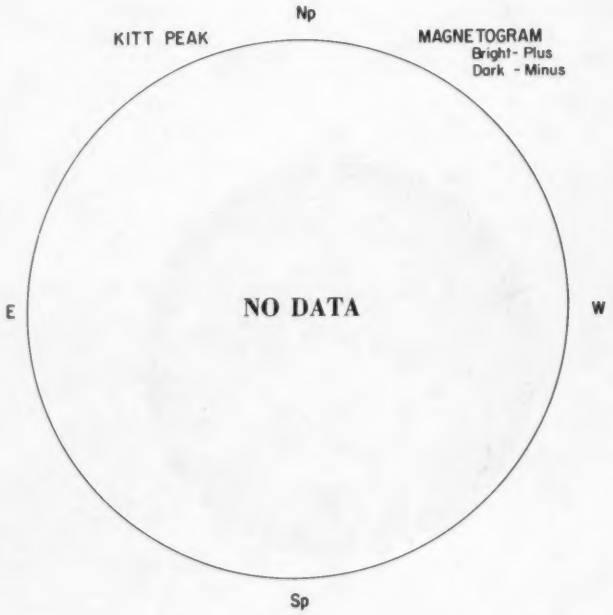

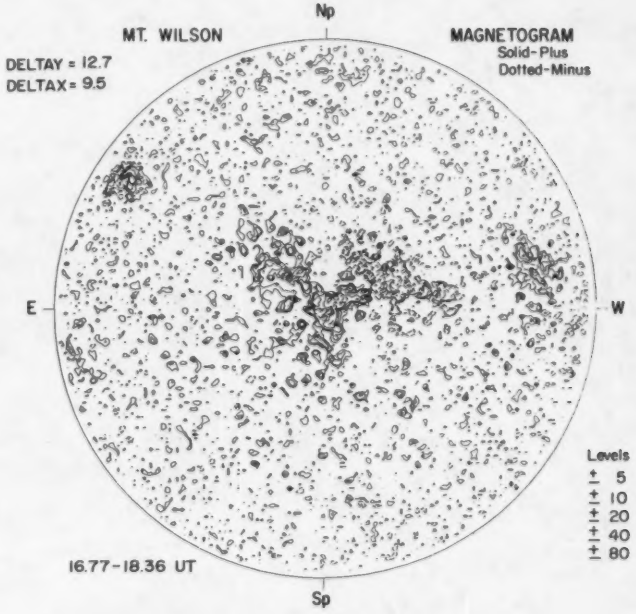

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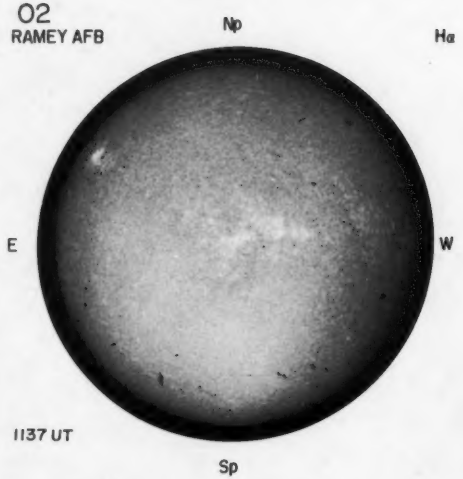
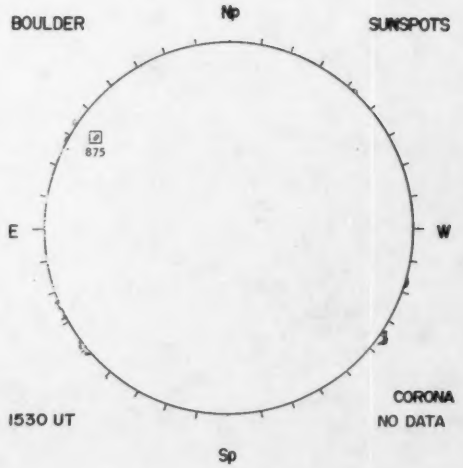


BOULDER

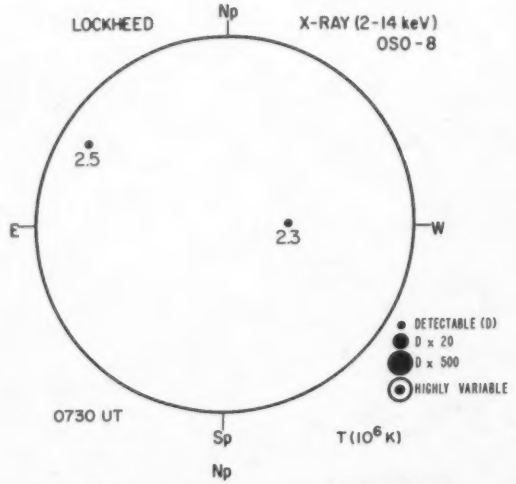


NELC LA POSTA

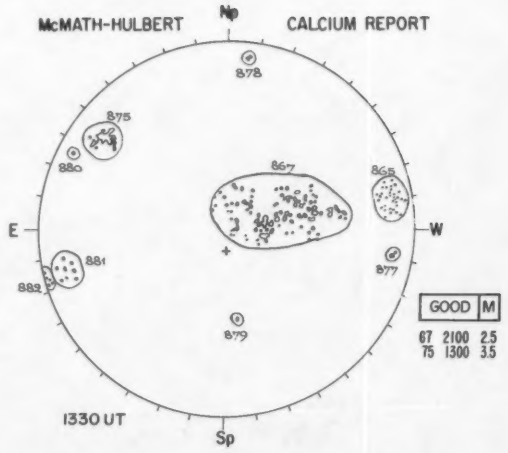
NELC LA POSTA

OCTOBER 3, 1975 (P =26.11, B_o =6.63, L_o =255.04)

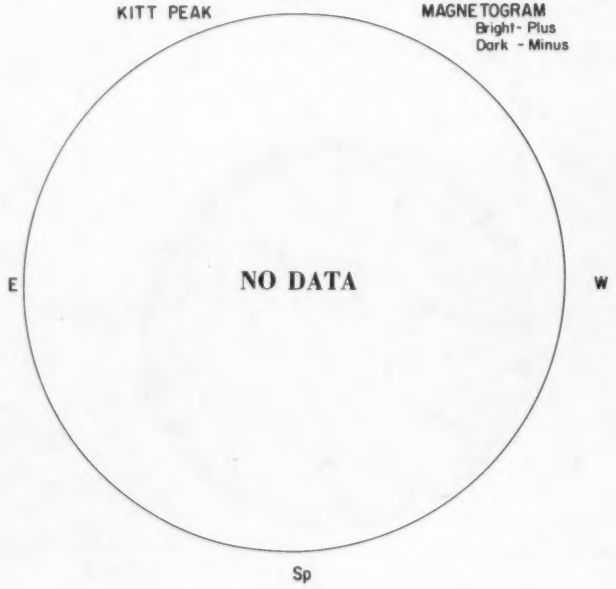
LOCKHEED X-RAY (2-14 keV) OSO-8



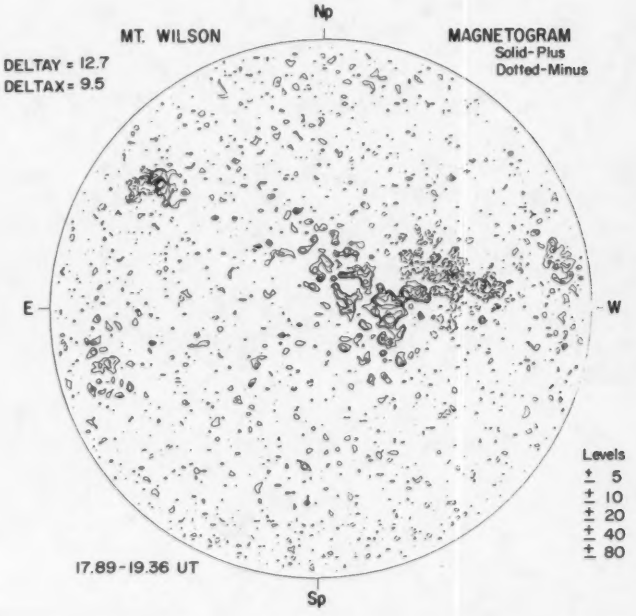
McMATH-HULBERT CALCIUM REPORT



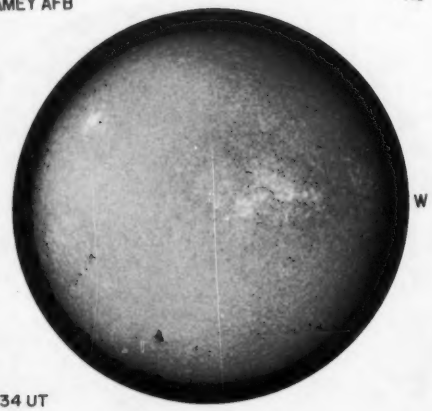
KITT PEAK MAGNETOGRAM
Bright- Plus
Dark - Minus



MT. WILSON MAGNETOGRAM
Solid- Plus
Dotted-Minus
DELTAY = 12.7
DELTAX = 9.5

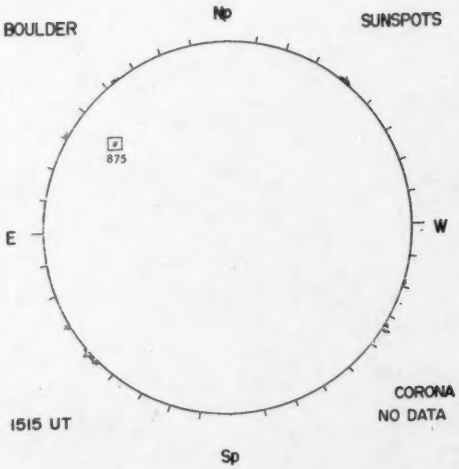


03
RAMEY AFB



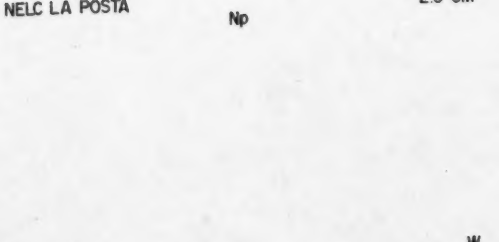
1134 UT

BOULDER



1515 UT

NELC LA POSTA

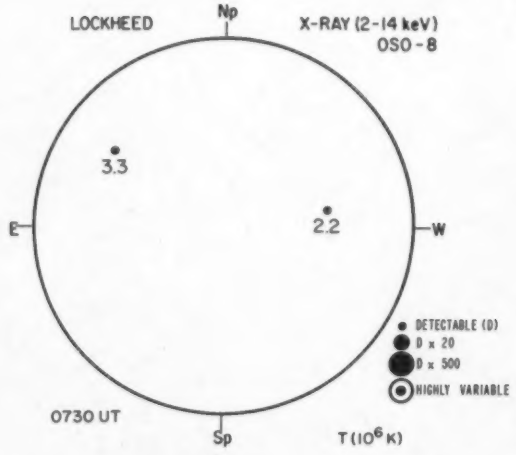


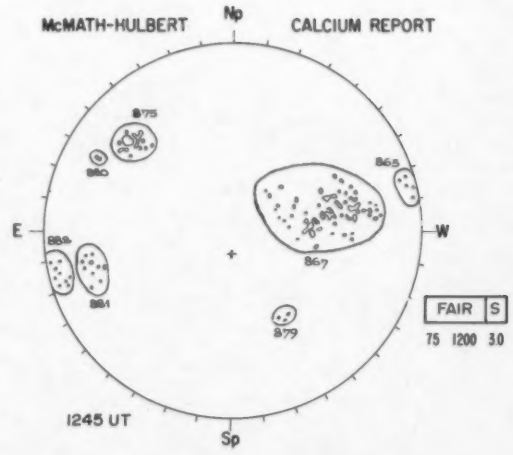
Ant. Temp. Unit 100°K

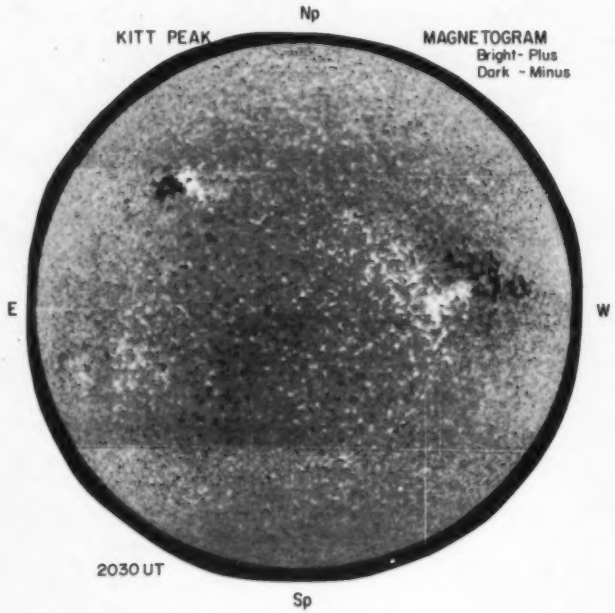
NELC LA POSTA

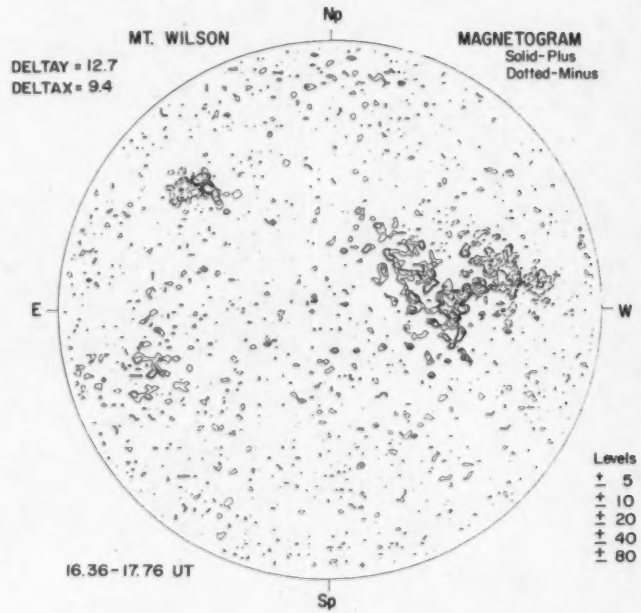
Ant. Temp. Unit 100°K

OCTOBER 4, 1975 (P=26.16, B_o=6.58, L_o=241.84)



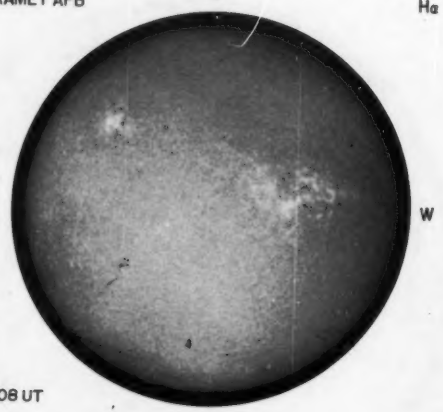




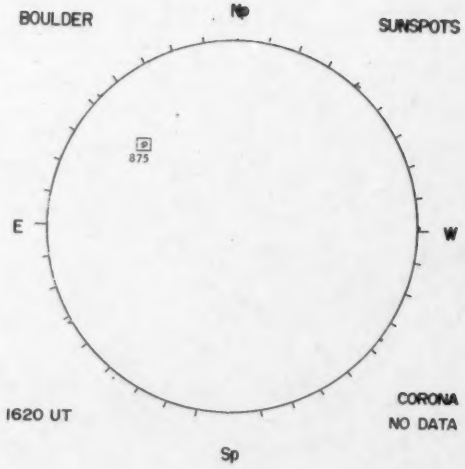


04

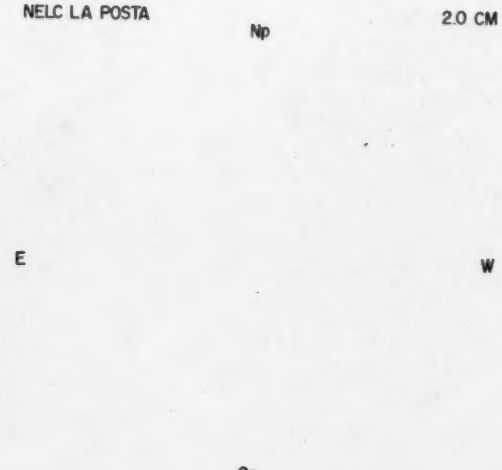
RAMEY AFB



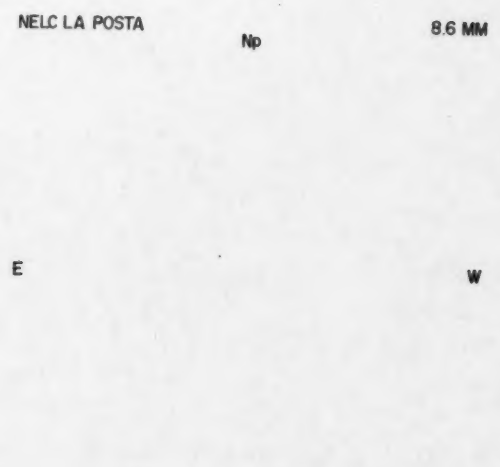
BOULDER



NELC LA POSTA

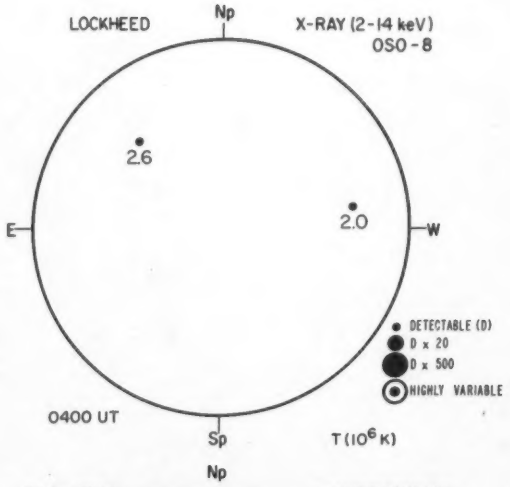


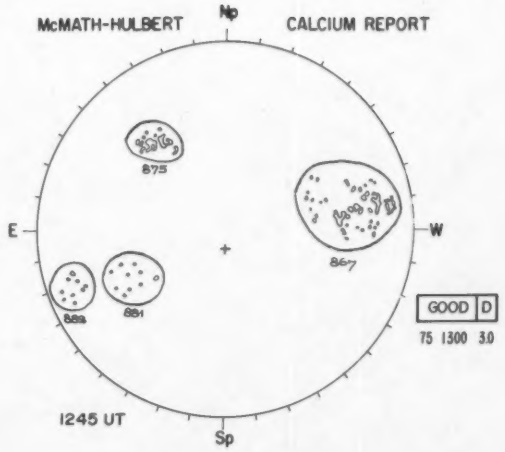
NELC LA POSTA

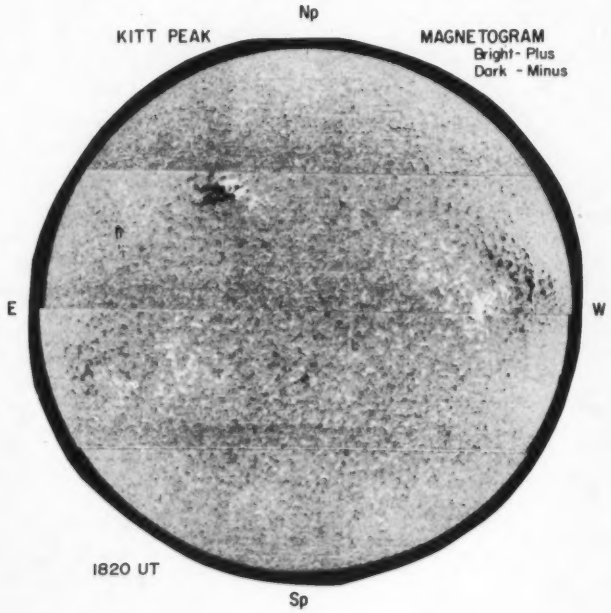


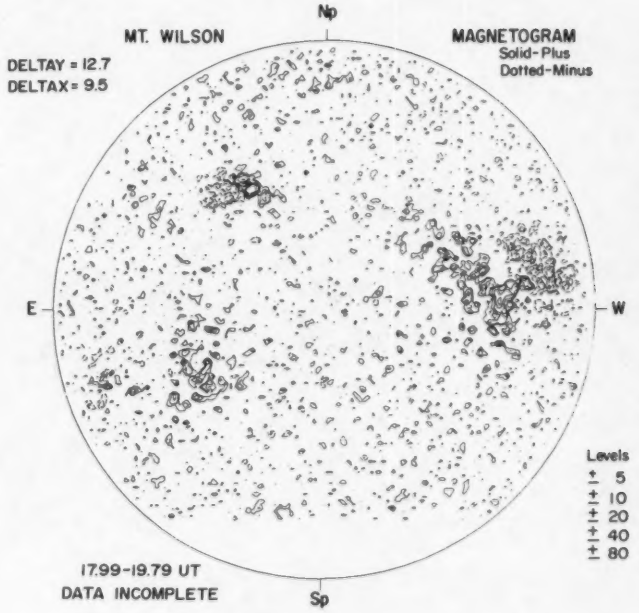
35
Oct 75

OCTOBER 5, 1975 (P =26.20, B_0 =6.53, L_0 =228.65)









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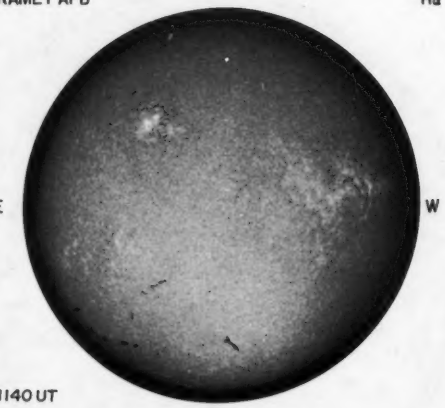
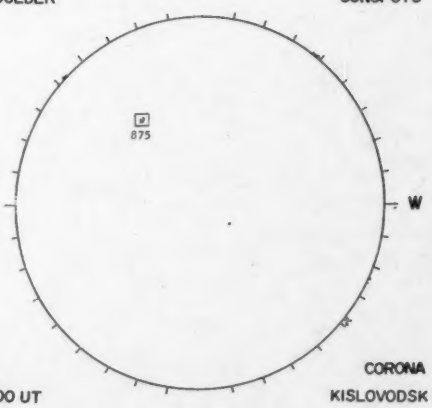


1140 UT

BOULDER



CORONA
KISLOVODSK
1500 UT

NELC LA POSTA

Ant. Temp. Unit 100°K

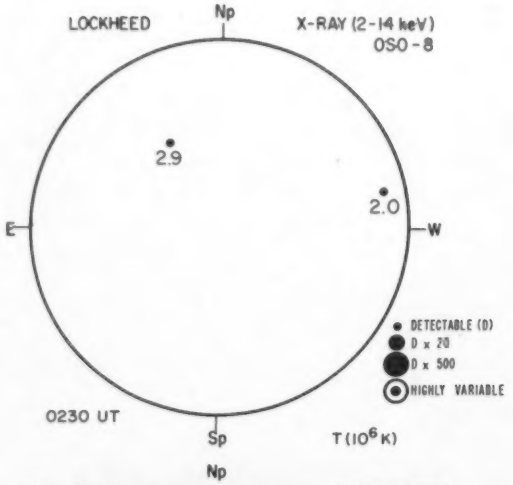
NELC LA POSTA

Ant. Temp. Unit 100°K

37
Oct 75

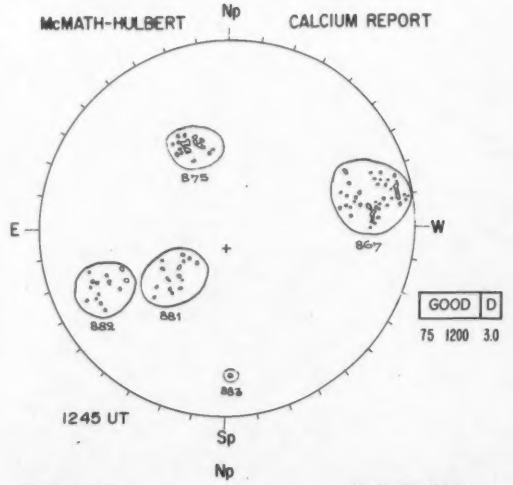
OCTOBER 6, 1975 (P=26.24, B_o=6.47, L_o=215.45)

LOCKHEED X-RAY (2-14 keV) OSO-8



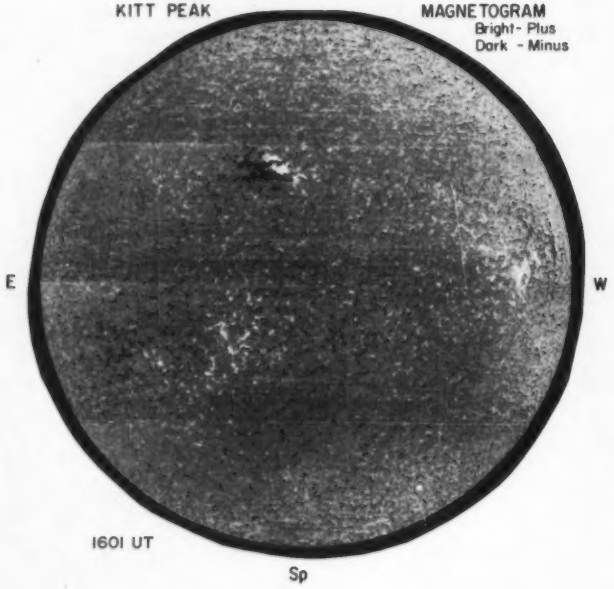
0230 UT T(10^6 K)

McMATH-HULBERT CALCIUM REPORT



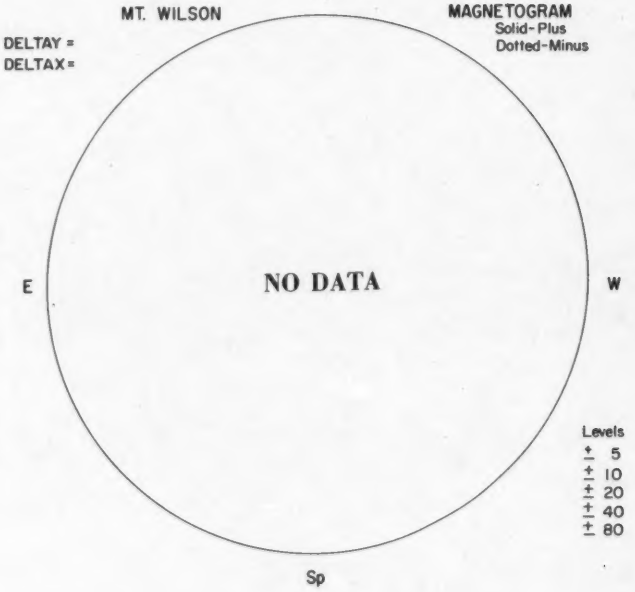
1245 UT

KITT PEAK MAGNETOGRAM
Bright - Plus
Dark - Minus



1601 UT

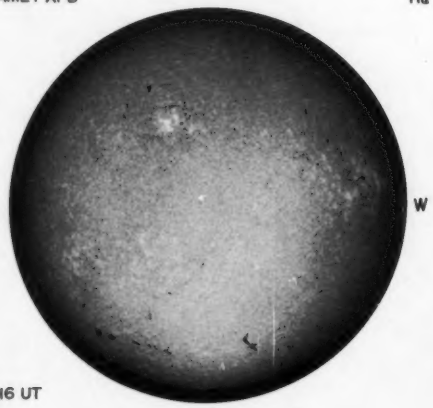
MT. WILSON MAGNETOGRAM
Solid - Plus
Dotted - Minus
DELTAY =
DELTAX =



06
RAMEY AFB

Np

Hα



E

W

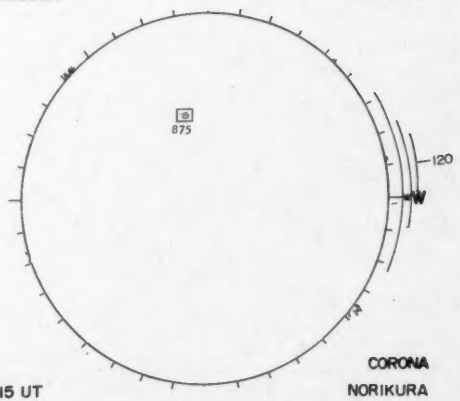
1116 UT

Sp

BOULDER

Np

SUNSPOTS



E

CORONA
NORIKURA

1515 UT

Sp

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

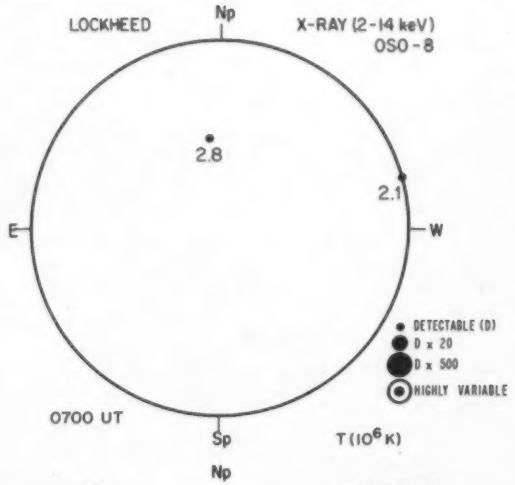
E

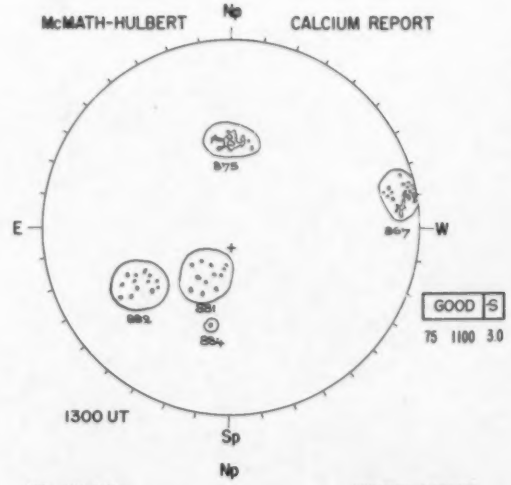
W

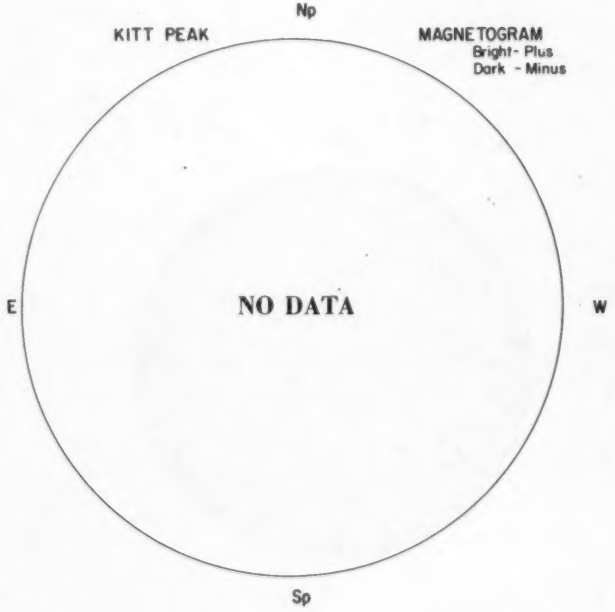
Sp

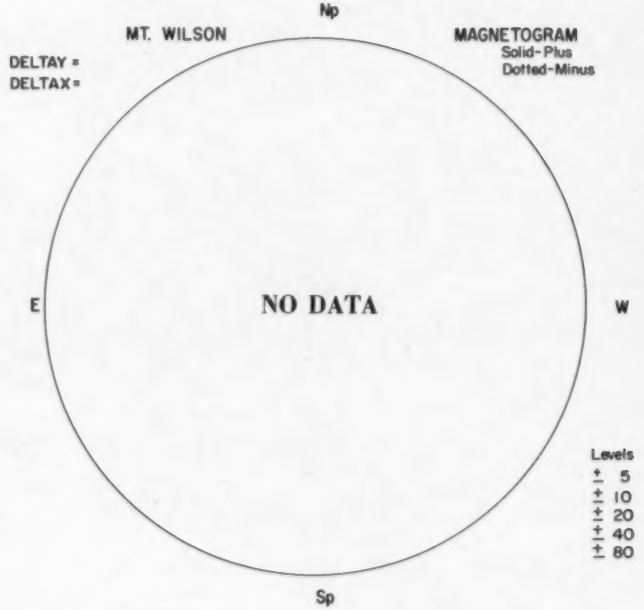
Ant. Temp. Unit 100°K

OCTOBER 7, 1975 (P =26.28, B_o =6.42, L_o =202.26)



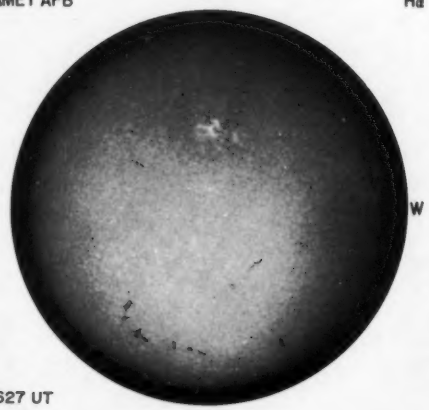




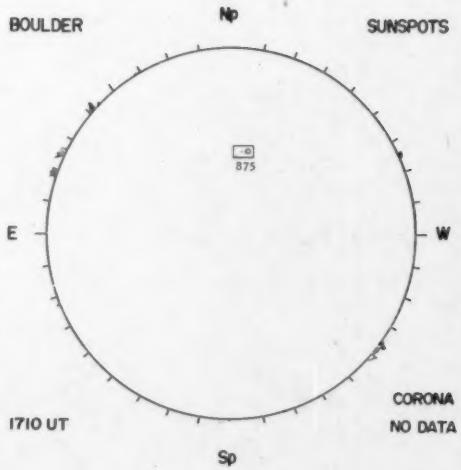


07

RAMEY AFB



BOULDER

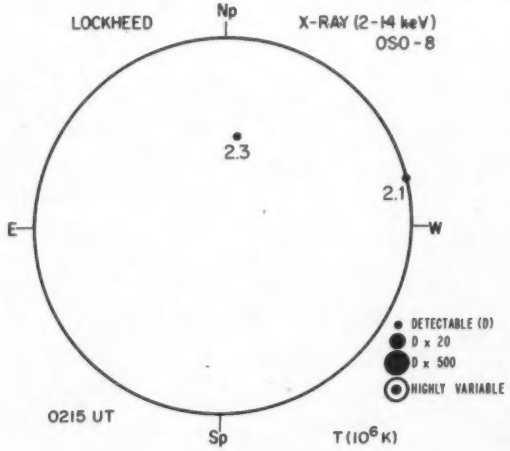


NELC LA POSTA

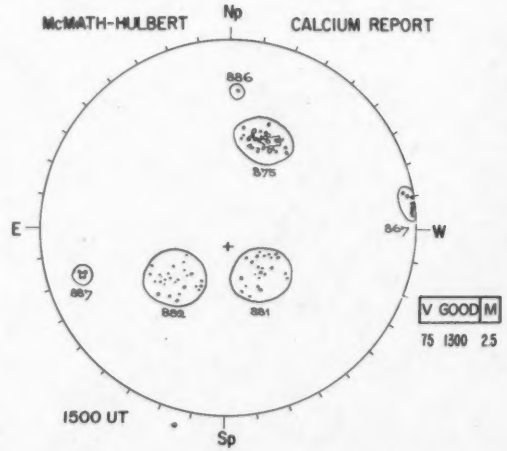
NELC LA POSTA

OCTOBER 8, 1975 (P =26.30, B_o =6.36, L_o =189.07)

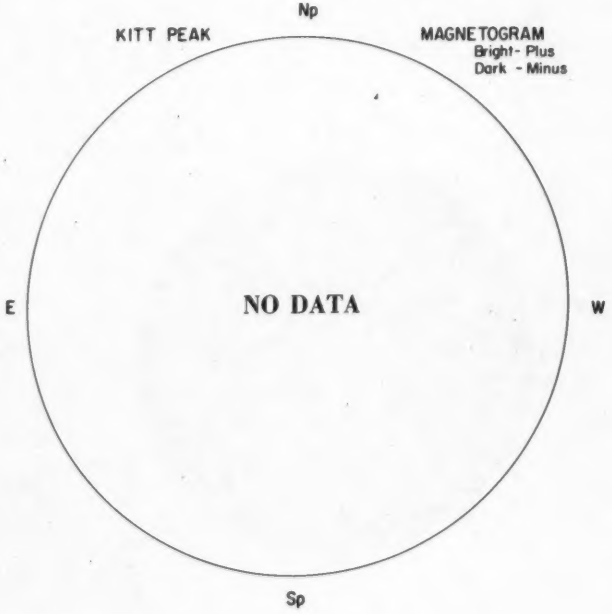
LOCKHEED X-RAY (2-14 keV) OSO-8



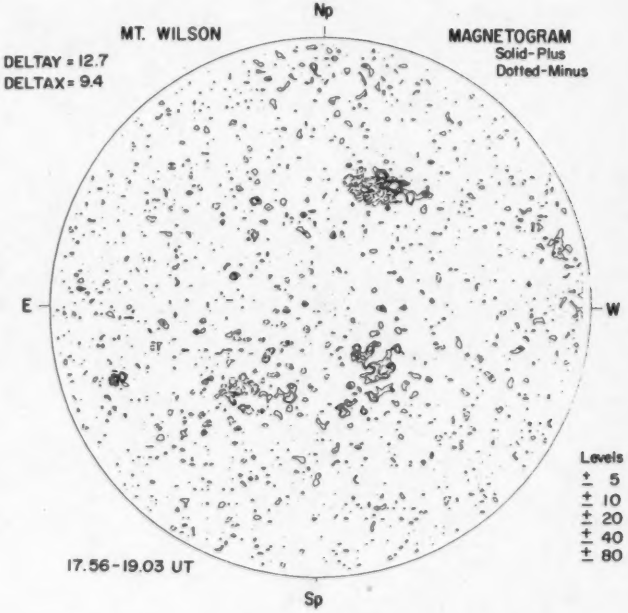
McMATH-HULBERT CALCIUM REPORT



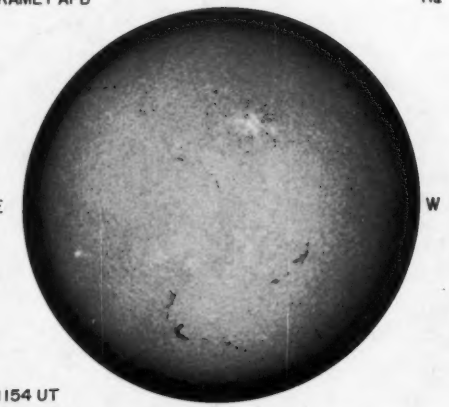
KITT PEAK MAGNETOGRAM
Bright- Plus
Dark - Minus



MT. WILSON MAGNETOGRAM
Solid-Plus
Dotted-Minus
DELTAY = 12.7
DELTAX = 9.4

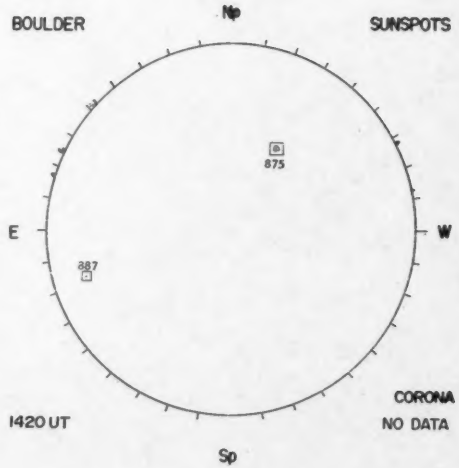


08
RAMEY AFB



1154 UT

BOULDER



1420 UT

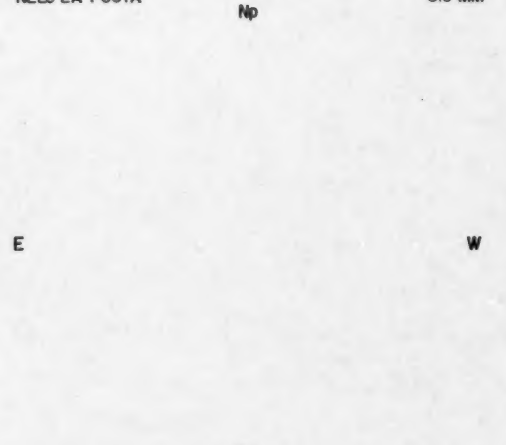
CORONA
NO DATA

NELC LA POSTA

---- UT

Ant. Temp. Unit 100°K

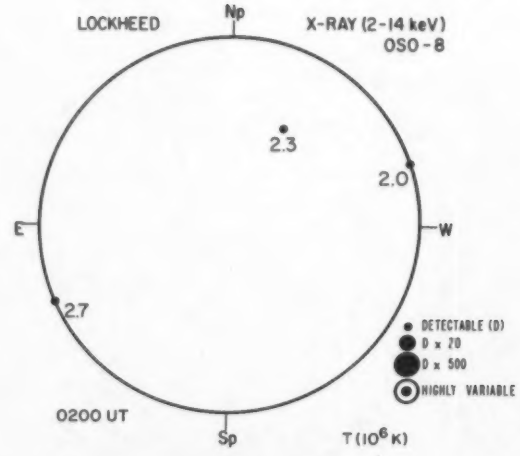
NELC LA POSTA

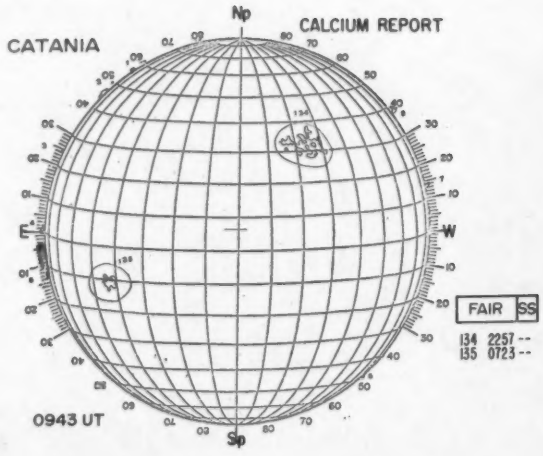


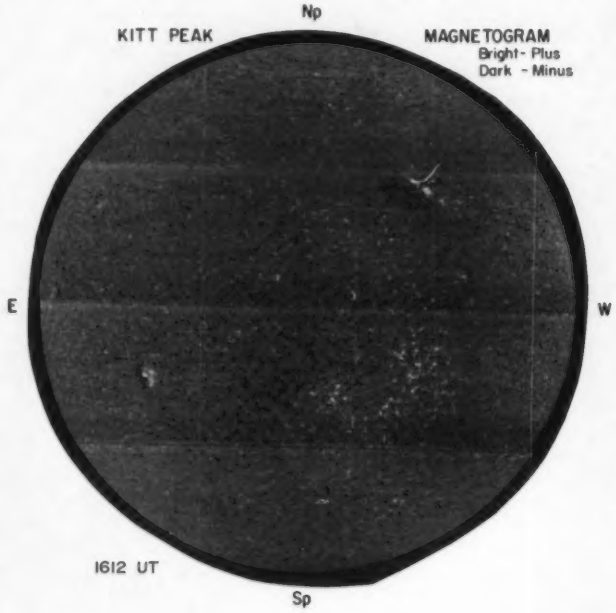
---- UT

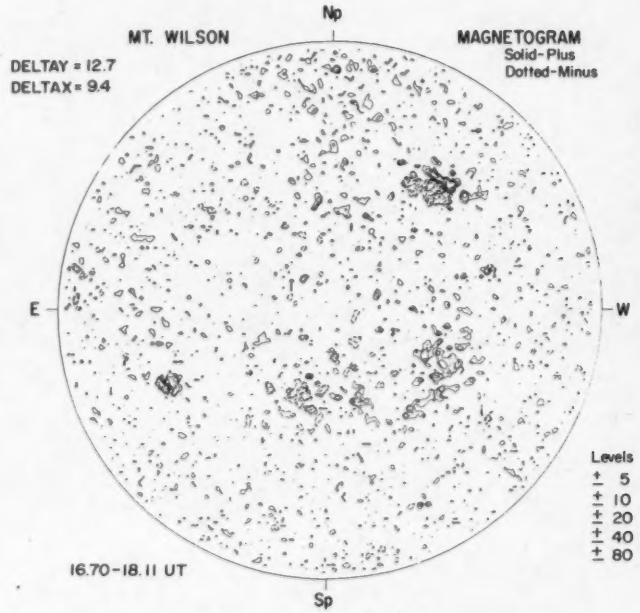
Ant. Temp. Unit 100°K

OCTOBER 9, 1975 (P =26.32, B_0 =6.30, L_0 =175.87)





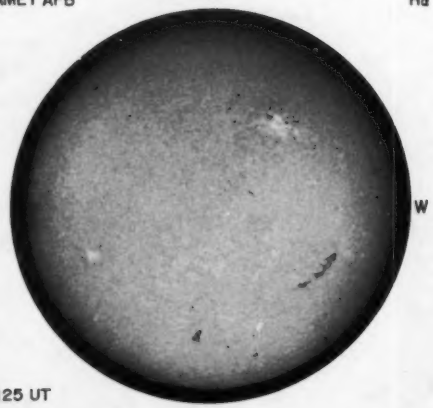




09
RAMEY AFB

Np

Hα



E

W

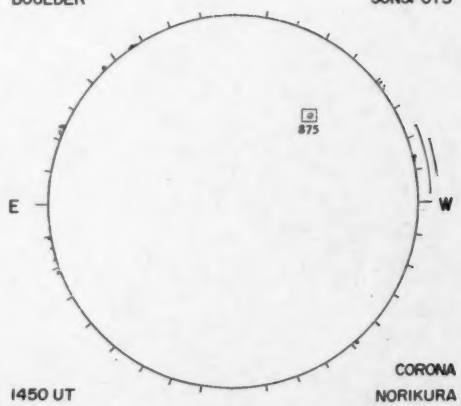
1125 UT

Sp

BOULDER

Np

SUNSPOTS



E

W

1450 UT

Sp

CORONA
NORIKURA

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

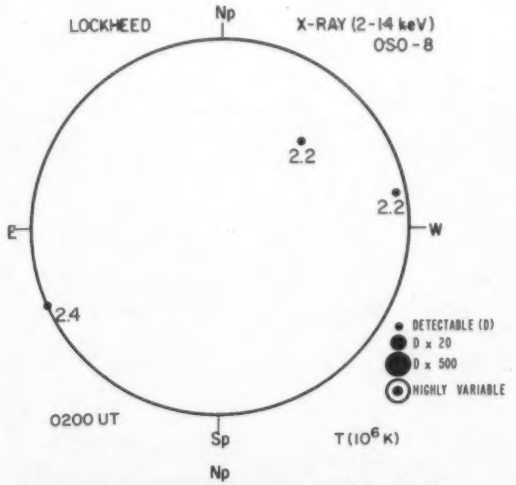
W

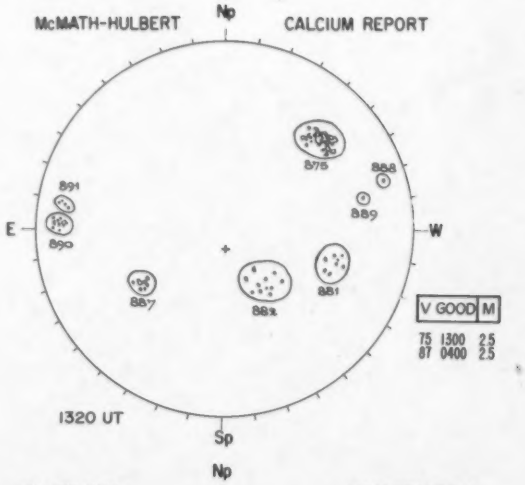
Sp

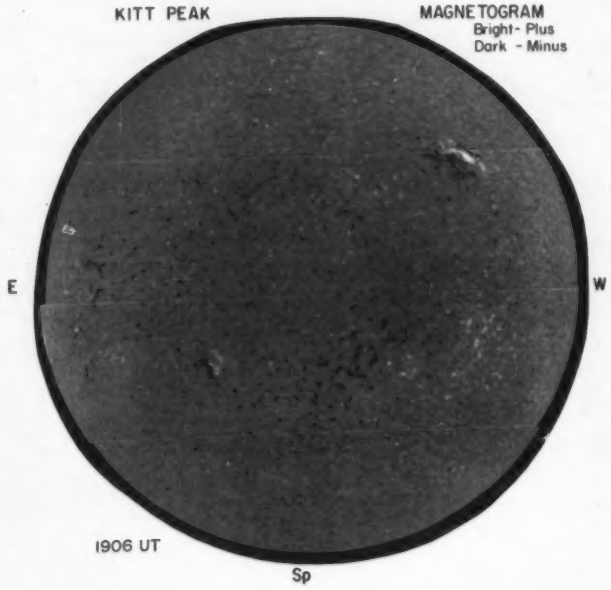
Ant. Temp. Unit 100°K

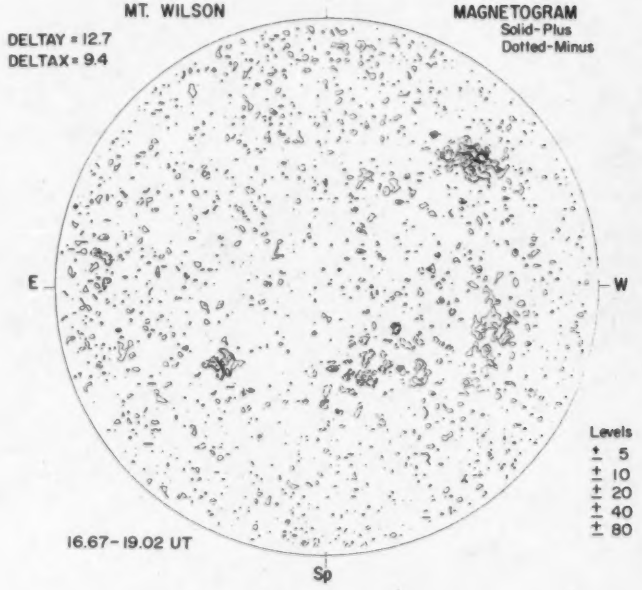
45
Oct 75

OCTOBER 10, 1975 (P =26.33, B_0 =6.23, L_0 =162.68)







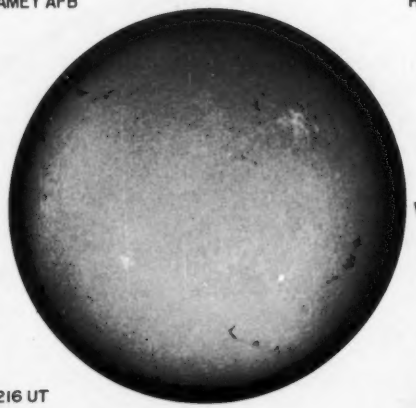


10

RAMEY AFB

Np

Hα



E

W

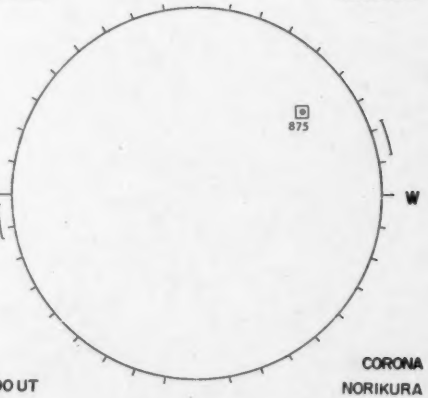
1216 UT

Sp

BOULDER

Np

SUNSPOTS



E

W

1600 UT

CORONA

NORIKURA

Sp

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

Sp

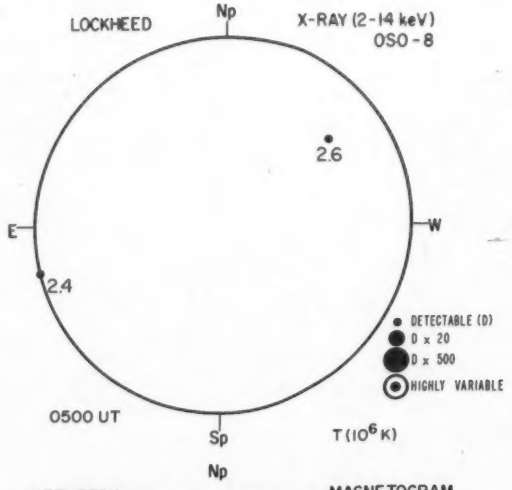
Ant. Temp. Unit 100°K

47

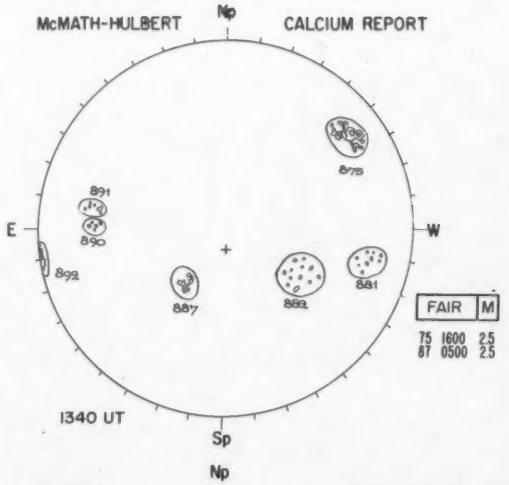
Oct 75

OCTOBER 11, 1975 (P =26.33, B_0 =6.17, L_0 =149.49)

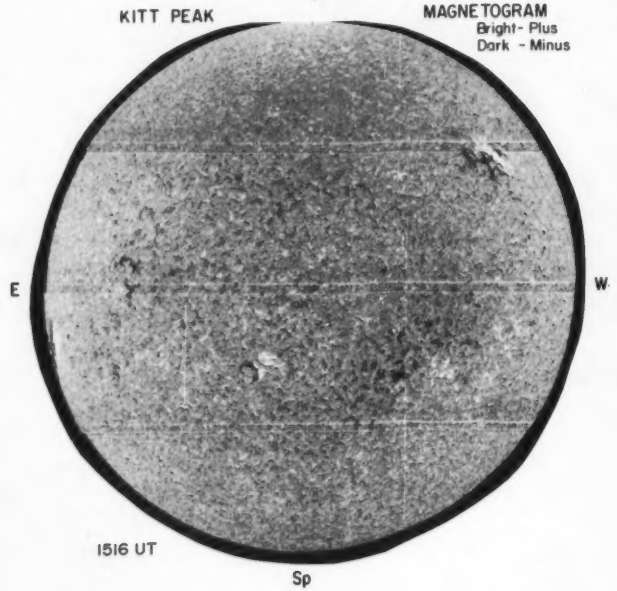
LOCKHEED X-RAY (2-14 keV) OSO-8



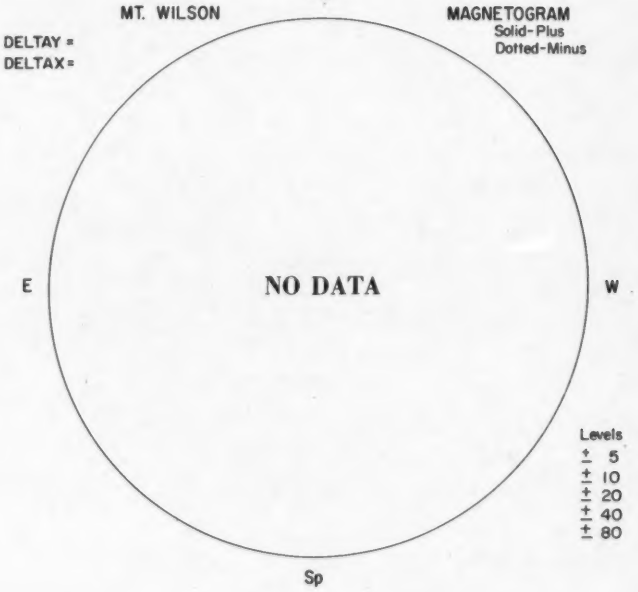
McMATH-HULBERT CALCIUM REPORT



KITT PEAK MAGNETOGRAM
Bright - Plus
Dark - Minus



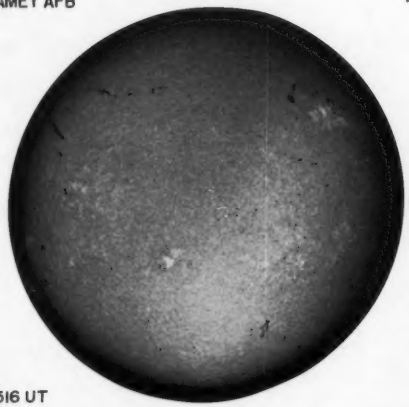
MT. WILSON MAGNETOGRAM
Solid - Plus
Dotted - Minus
DELTAY =
DELTAX =



RAMEY AFB

Np

Hα



E

W

1516 UT

Sp

BOULDER

Np

SUNSPOTS

875

E

W

CORONA

NO DATA

1520 UT

Sp

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

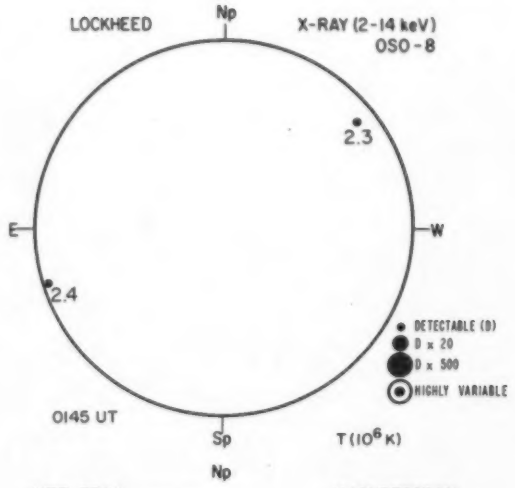
E

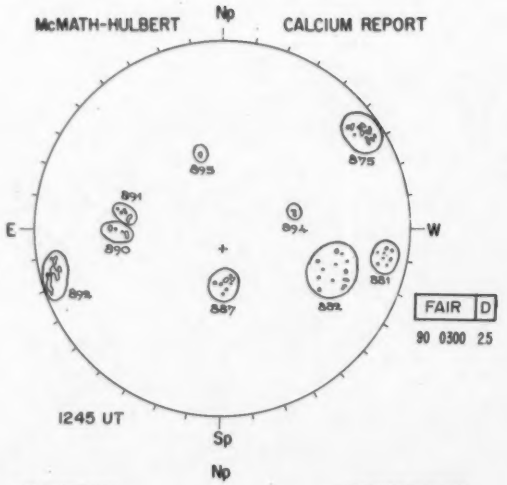
W

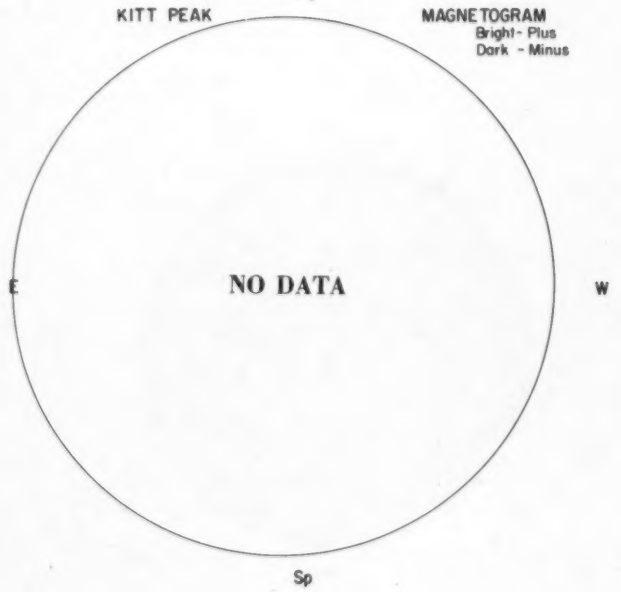
Sp

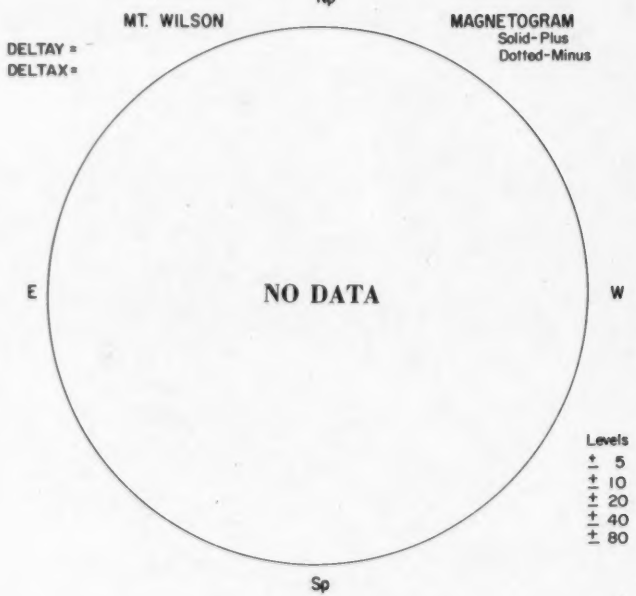
Ant. Temp. Unit 100°K

OCTOBER 12, 1975 (P=26.33, B_0=6.10, L_0=136.30)

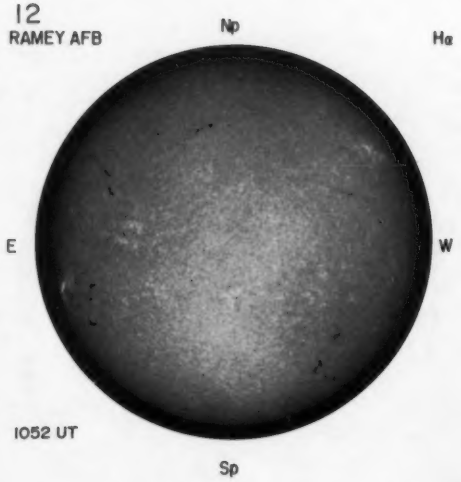




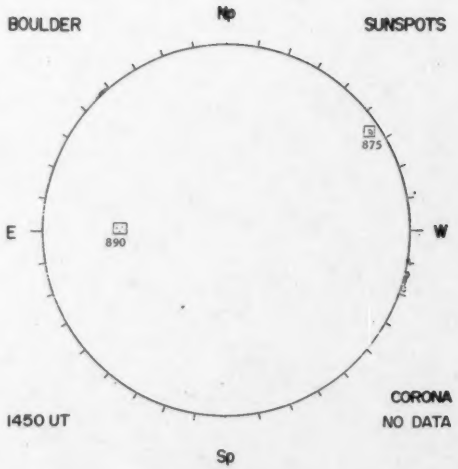




12
RAMEY AFB



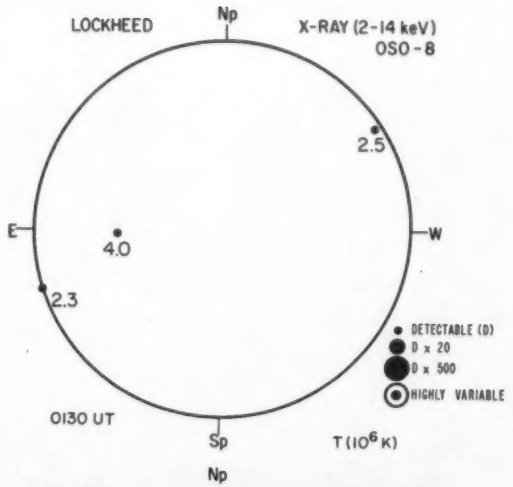
BOULDER

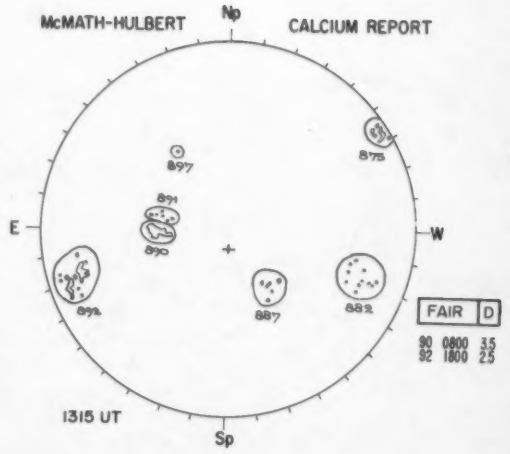


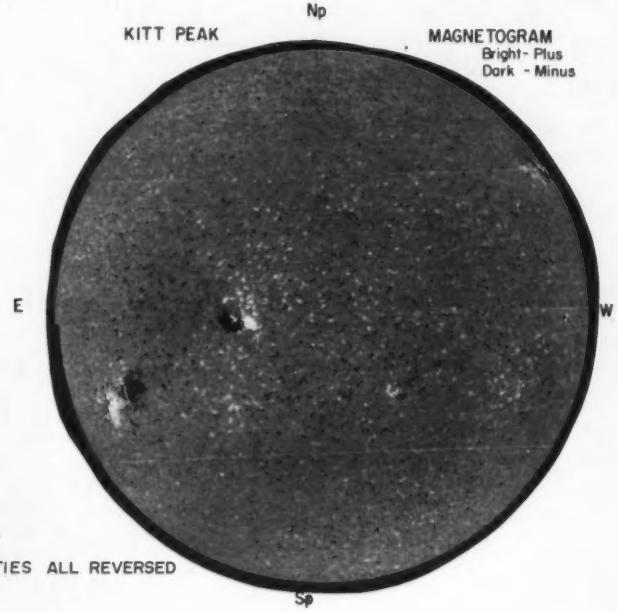
NELC LA POSTA

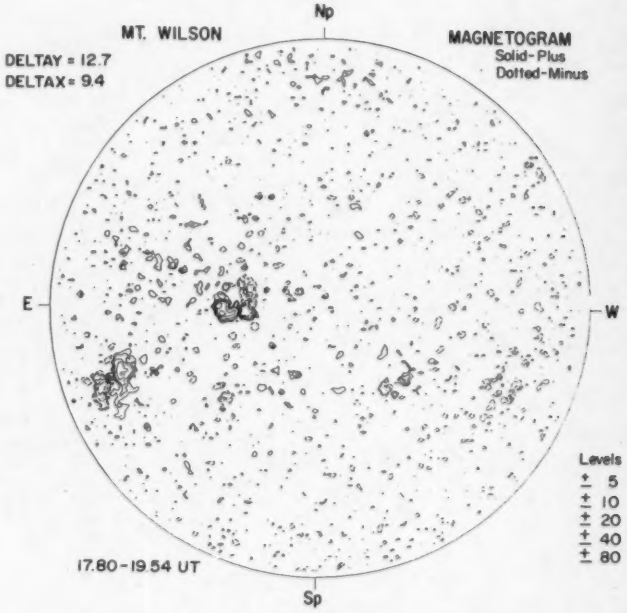
NELC LA POSTA

OCTOBER 13, 1975 (P=26.32, B_0=6.03, L_0=123.11)

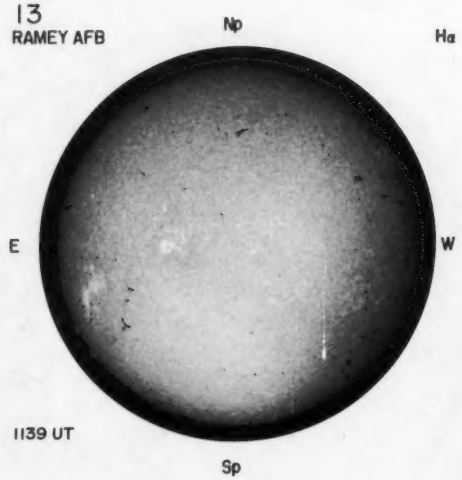






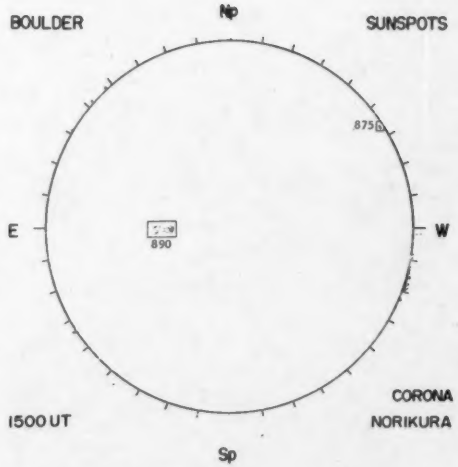


13
RAMEY AFB



1139 UT

BOULDER



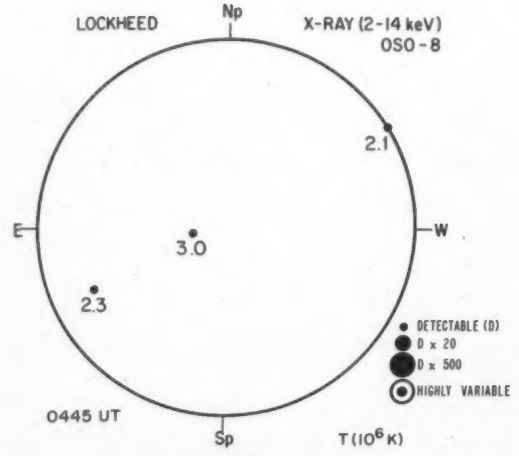
1500 UT

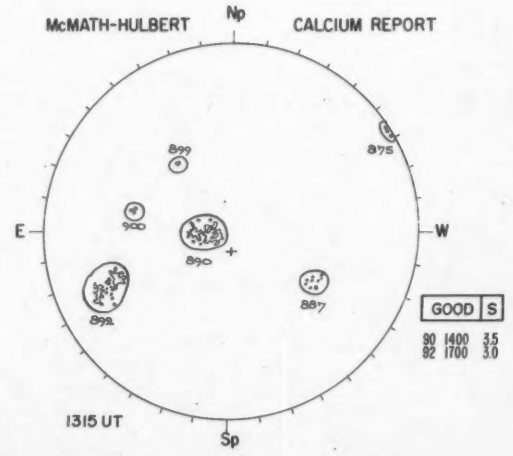
NELC LA POSTA

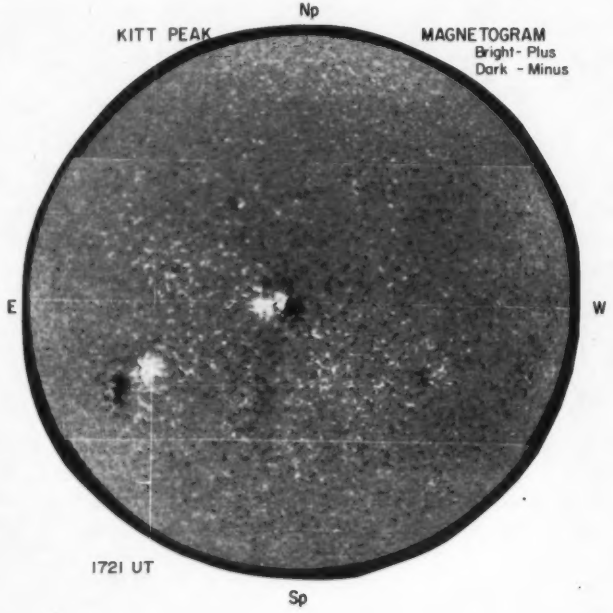
NELC LA POSTA

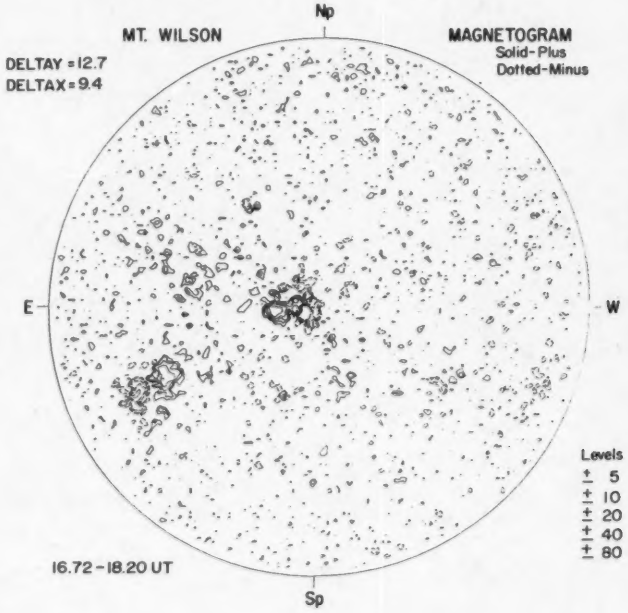
53
Oct 75

OCTOBER 14, 1975 (P =26.30, B_0 =5.96, L_0 =109.91)

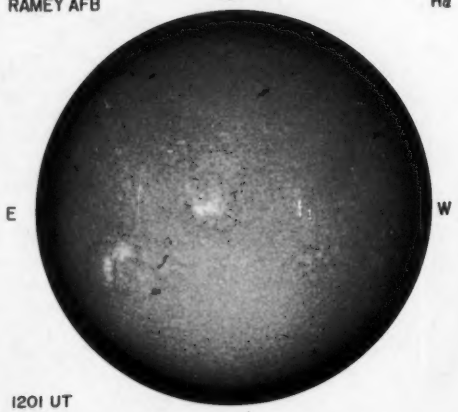




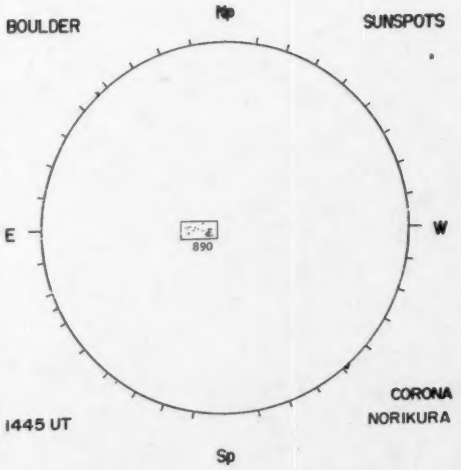




14
RAMEY AFB

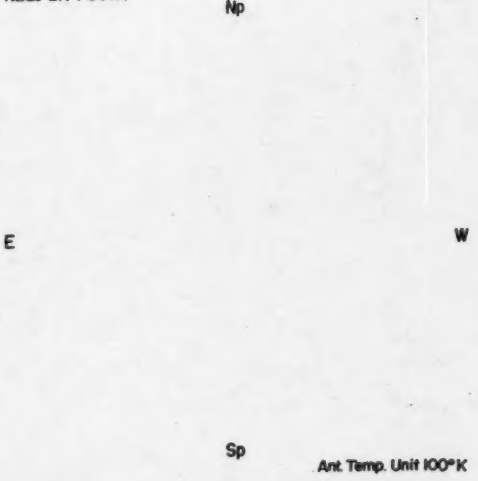


BOULDER



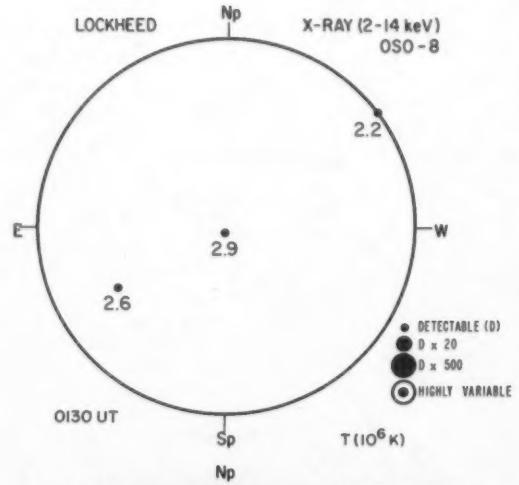
NELC LA POSTA

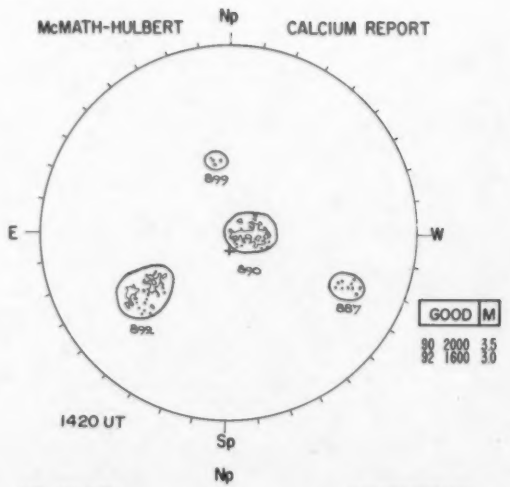
NELC LA POSTA

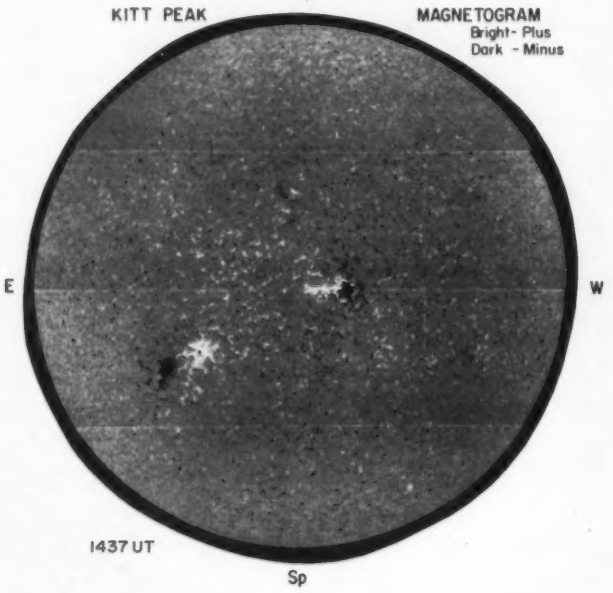


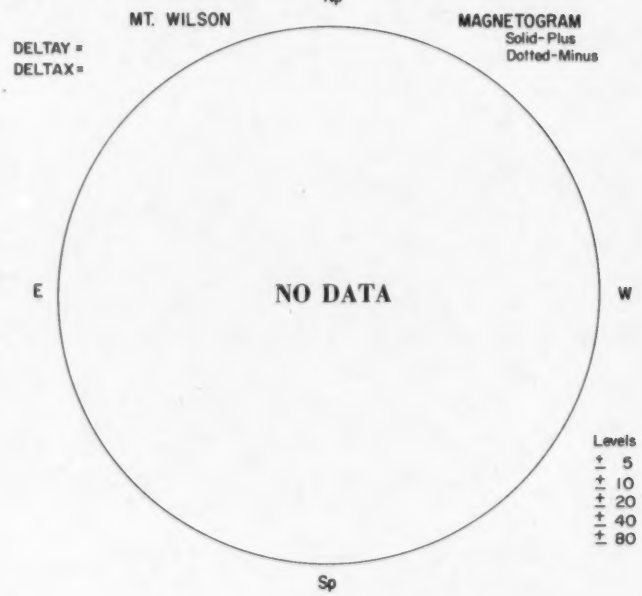
55
Oct 75

OCTOBER 15, 1975 (P=26.27, B_0=5.89, L_0=96.72)







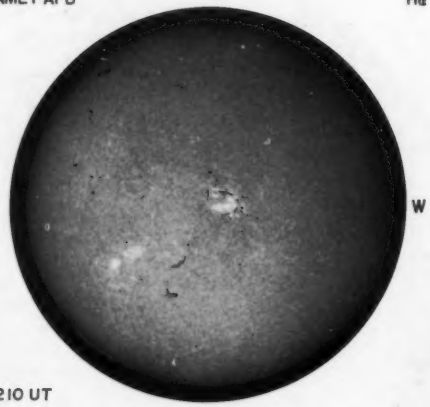


15

RAMEY AFB

Np

Hα



E

W

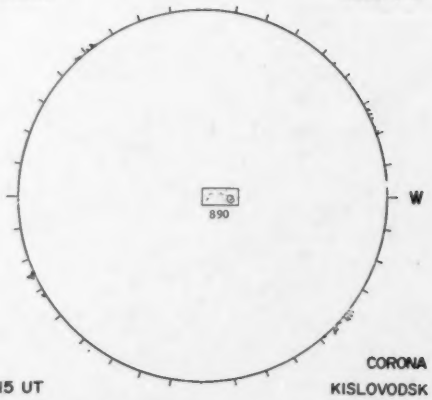
1210 UT

Sp

BOULDER

Np

SUNSPOTS



E

W

CORONA

KISLOVODSK

1515 UT

Sp

NELC LA POSTA

2.0 CM

Np

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Np

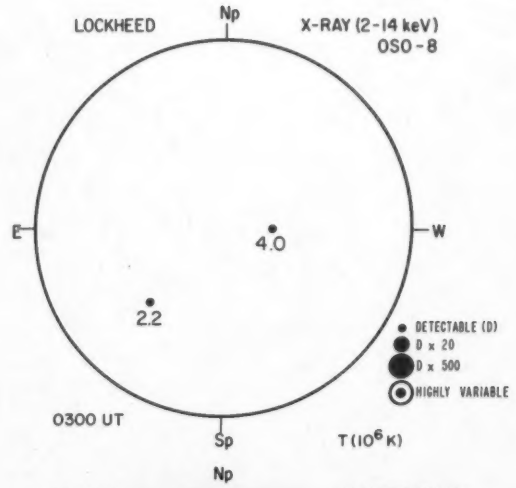
E

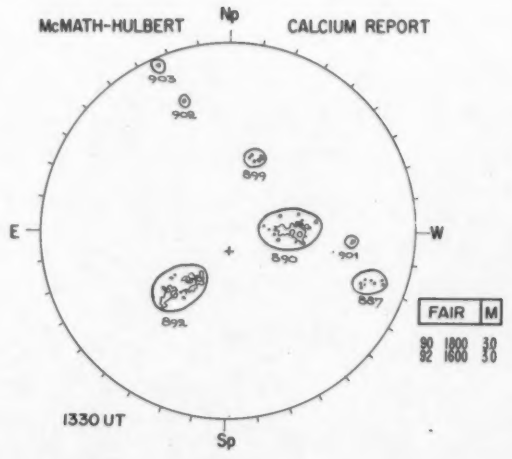
W

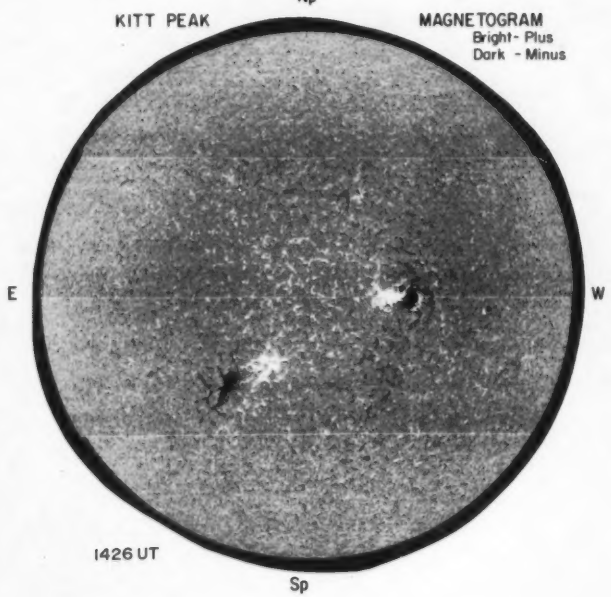
Sp

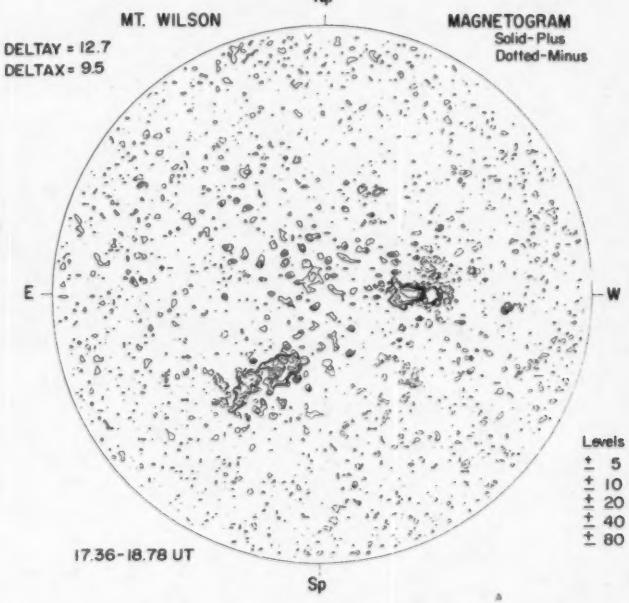
Ant. Temp. Unit 100°K

OCTOBER 16, 1975 (P=26.24, B_o=5.82, L_o=83.53)



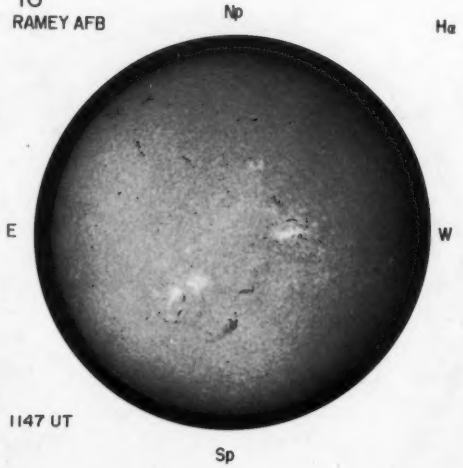




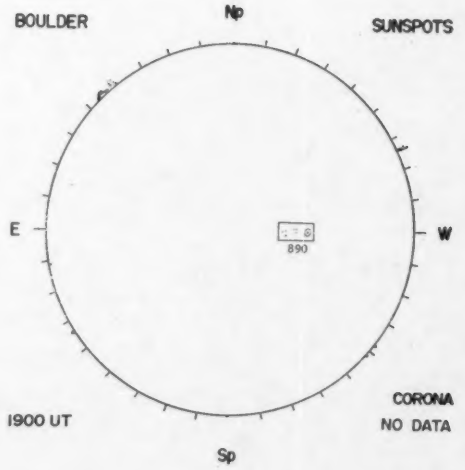


16

RAMEY AFB



BOULDER



NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

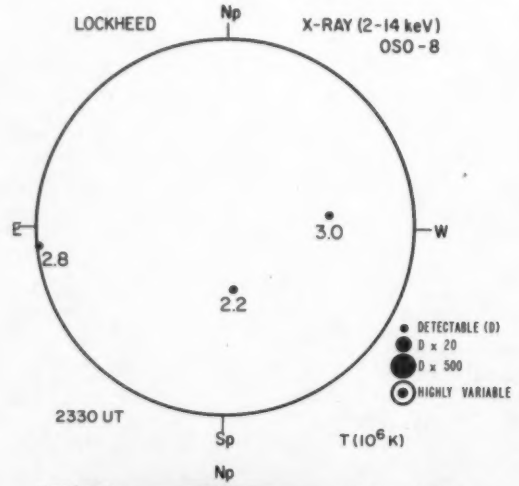
W

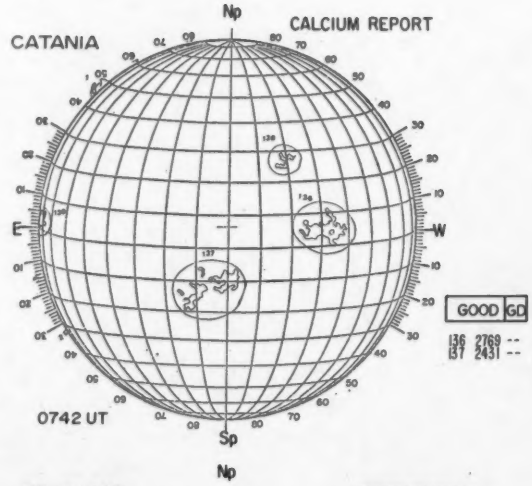
Sp

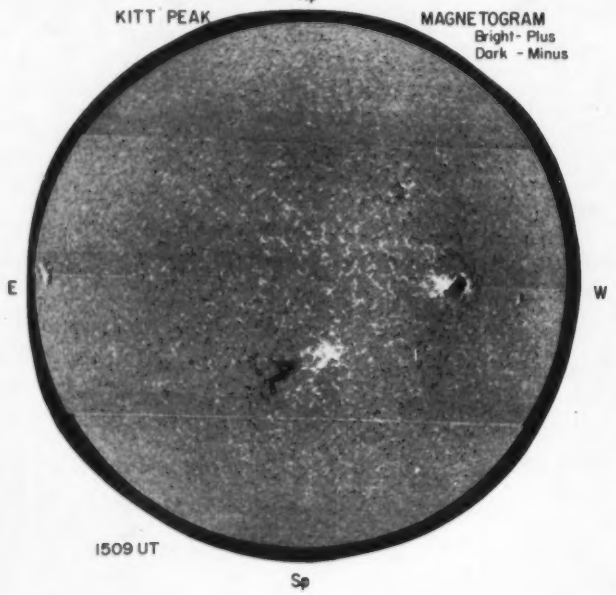
Ant. Temp. Unit 100°K

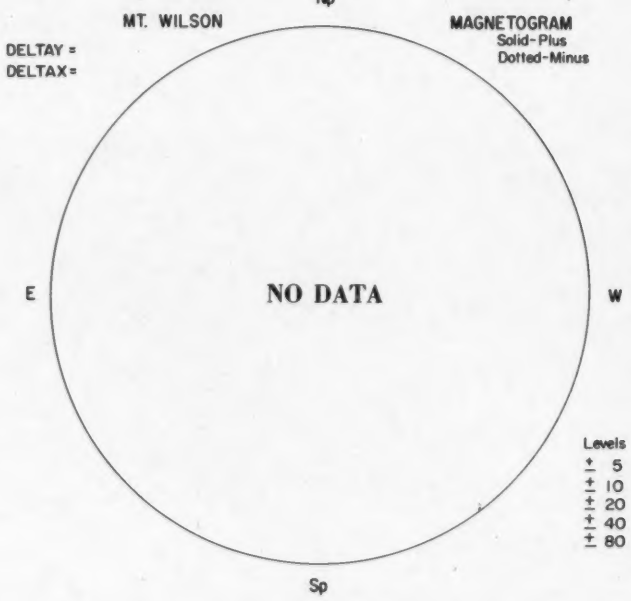
59
Oct 75

OCTOBER 17, 1975 (P = 26.19, B_0 = 5.74, L_0 = 70.34)







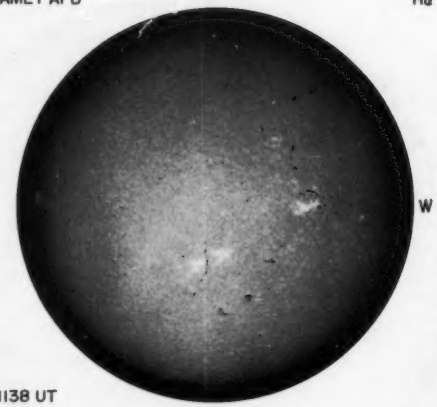


17

RAMEY AFB

Np

Hα



E

W

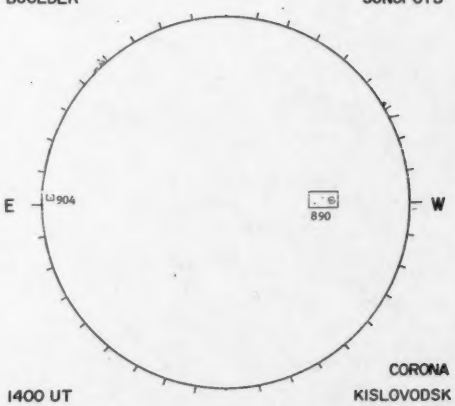
1138 UT

Sp

BOULDER

Np

SUNSPOTS



CORONA

KISLOVODSK

1400 UT

Sp

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

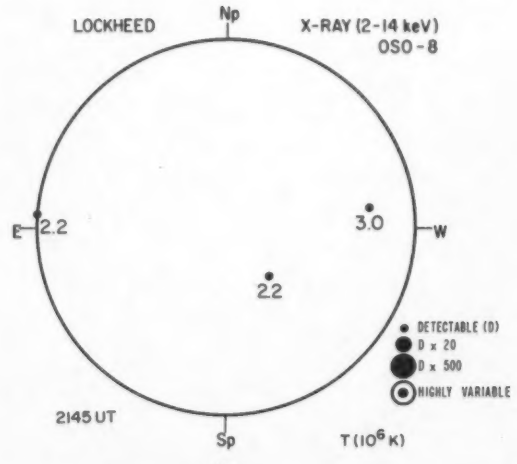
Sp

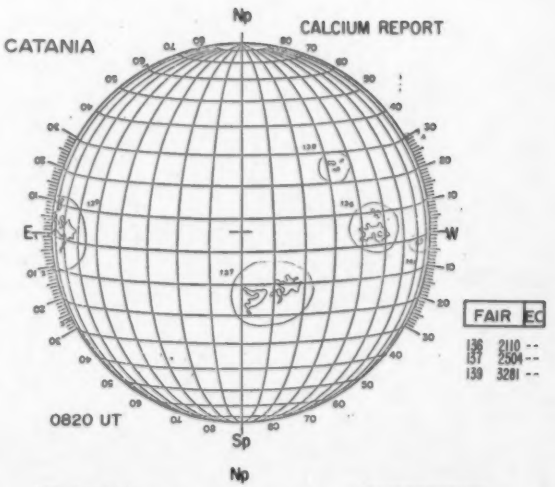
Ant. Temp. Unit 100°K

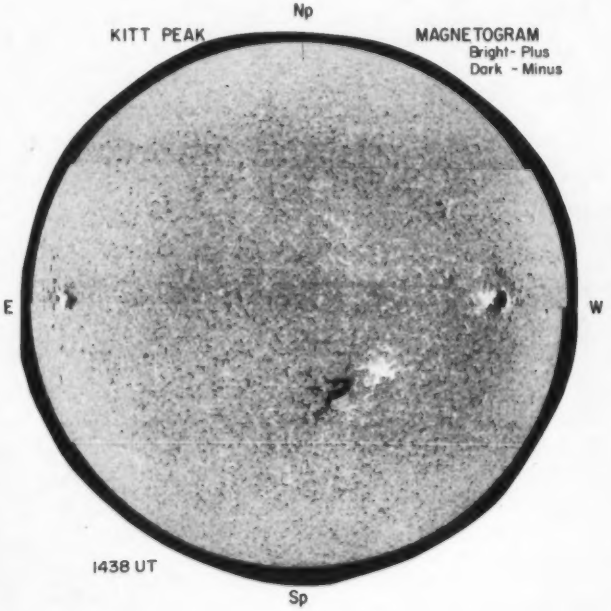
61

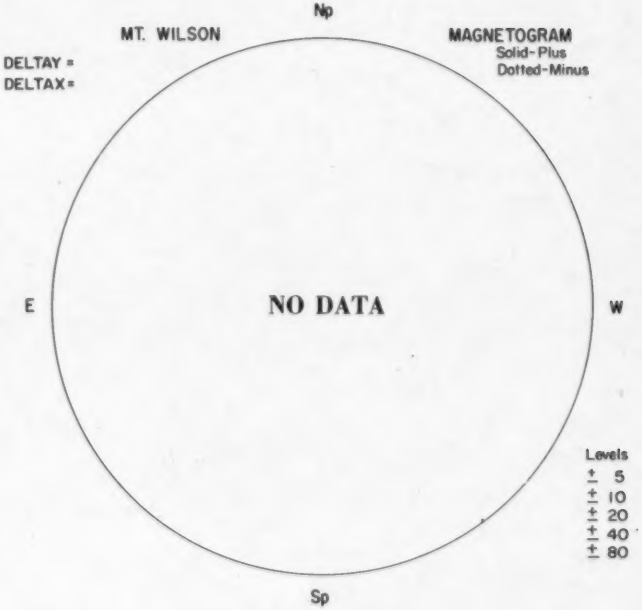
Oct 75

OCTOBER 18, 1975 (P = 26.14, B_o = 5.66, L_o = 57.15)







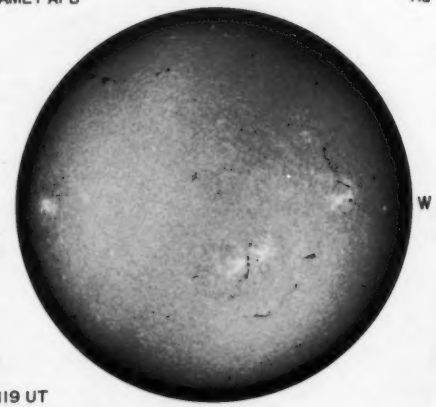


18

RAMEY AFB

Np

Hα



E

W

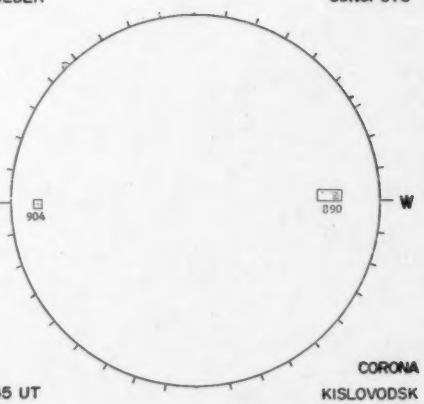
1119 UT

Sp

BOULDER

Np

SUNSPOTS



E

W

CORONA

KISLOVODSK

1545 UT

Sp

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

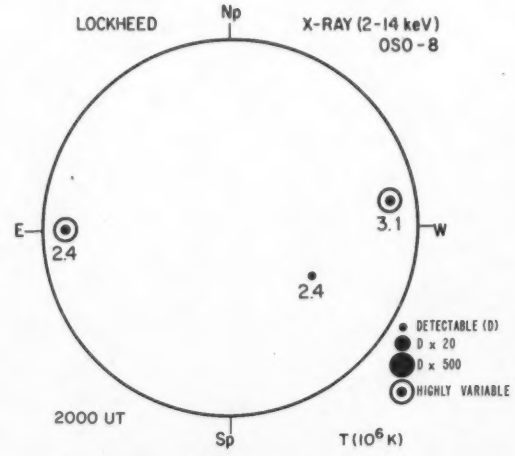
Sp

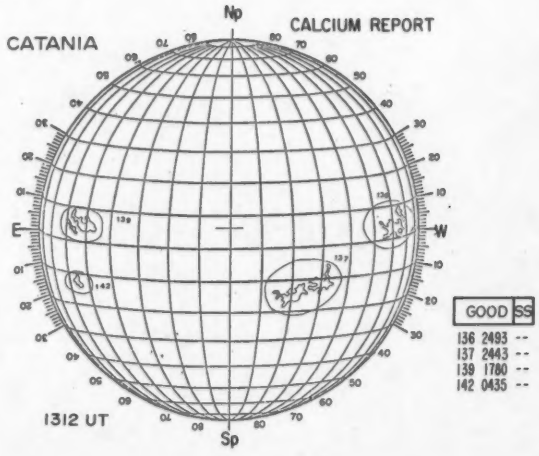
Ant. Temp. Unit 100°K

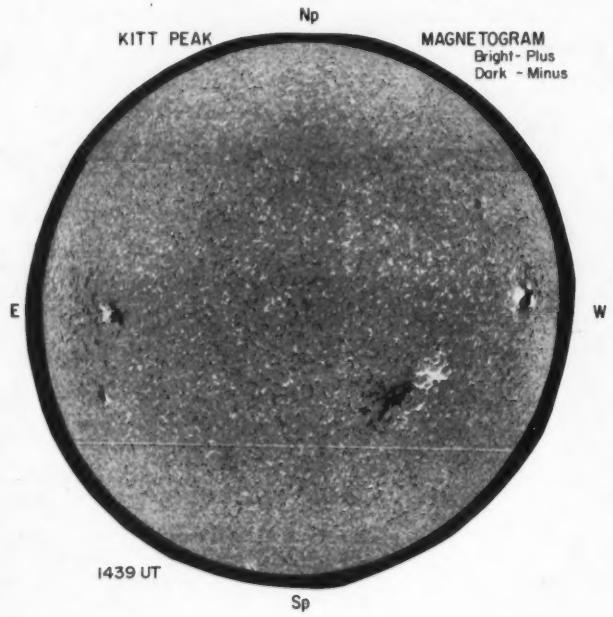
63

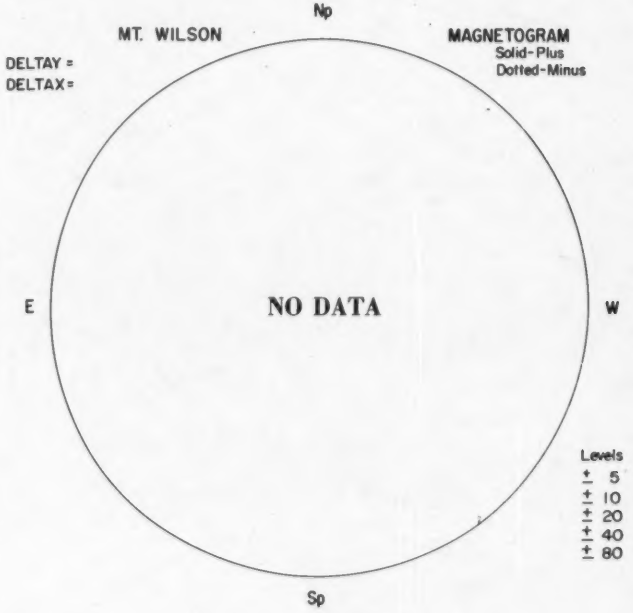
Oct 75

OCTOBER 19, 1975 (P =26.09, B_o =5.58, L_o =43.96)

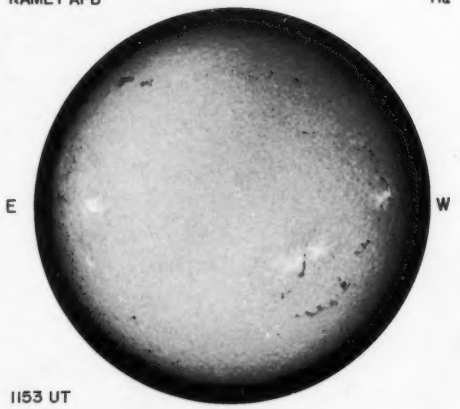




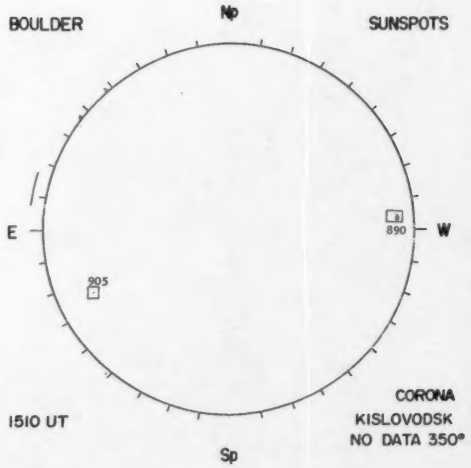




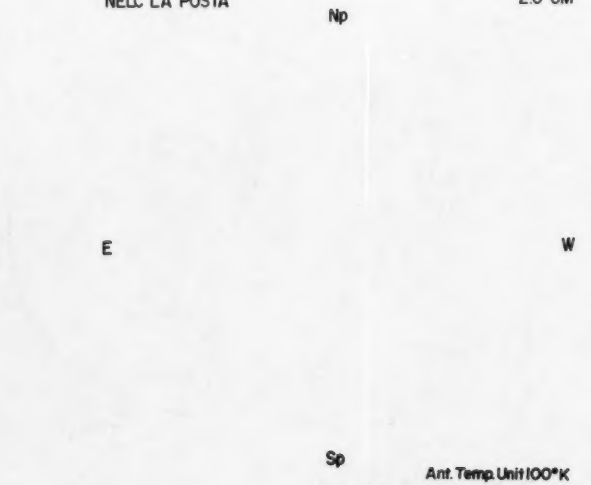
19
RAMEY AFB



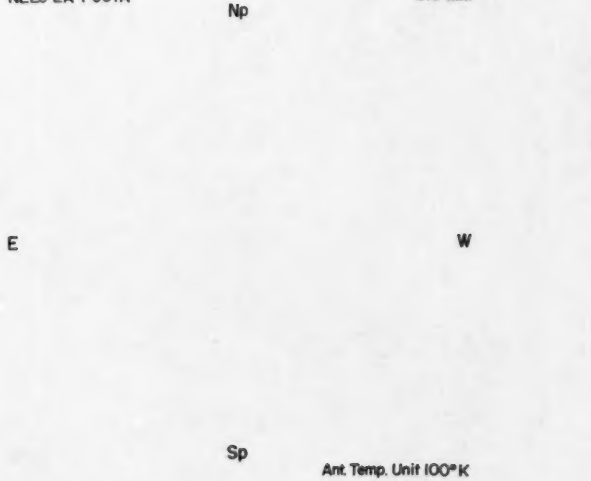
BOULDER



NELC LA POSTA

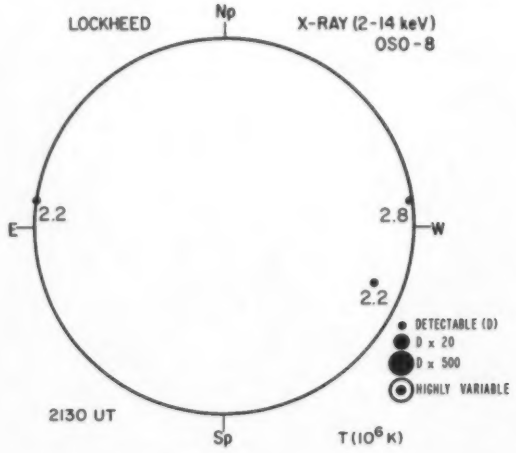


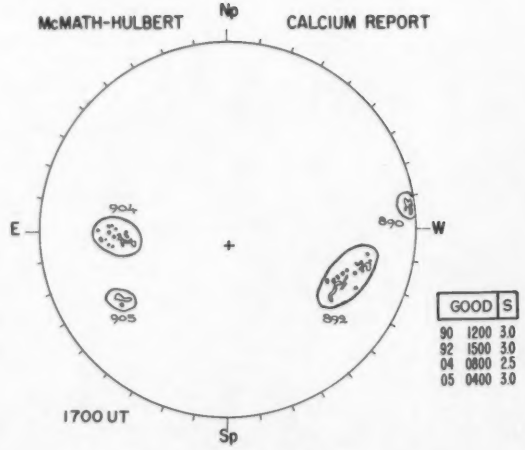
NELC LA POSTA

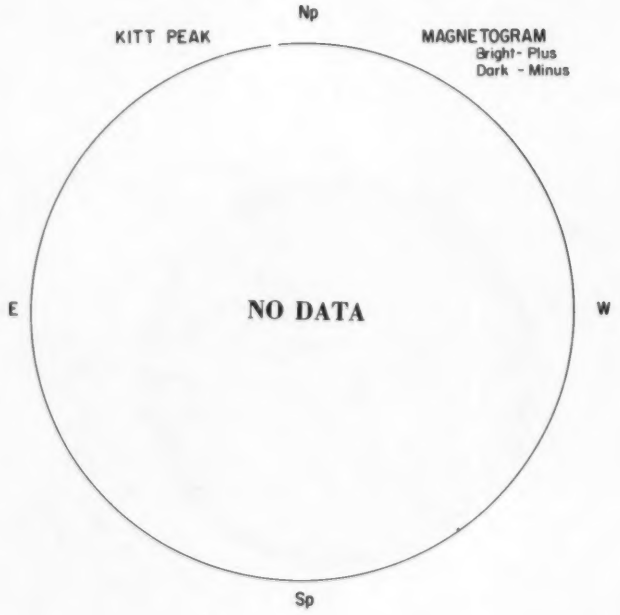


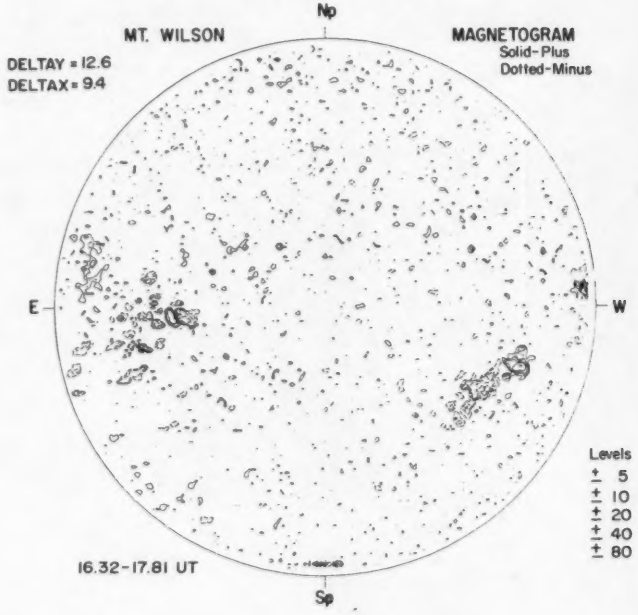
65
Oct 75

OCTOBER 20, 1975 (P = 26.02, B_0 = 5.50, L_0 = 30.77)







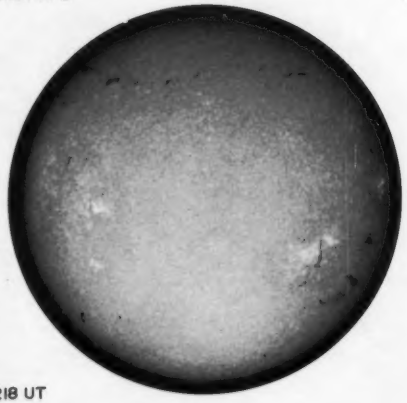


20

RAMEY AFB

Np

Hα



E

W

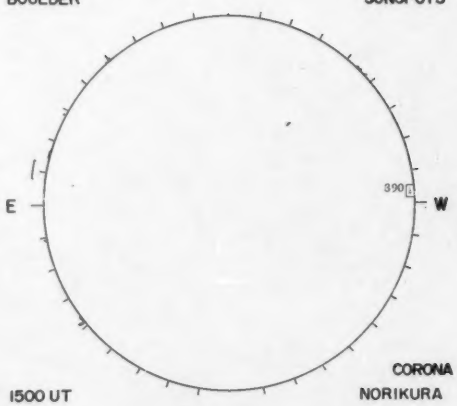
1218 UT

Sp

BOULDER

Np

SUNSPOTS



CORONA

NORIKURA

1500 UT

Sp

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

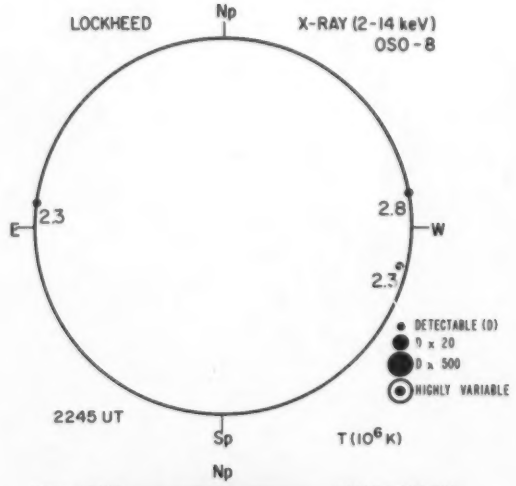
Sp

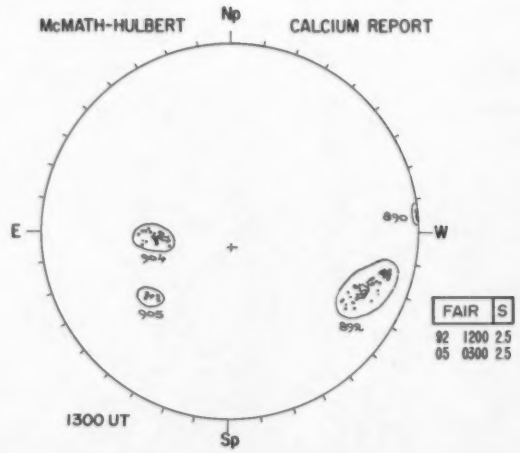
Ant. Temp. Unit 100°K

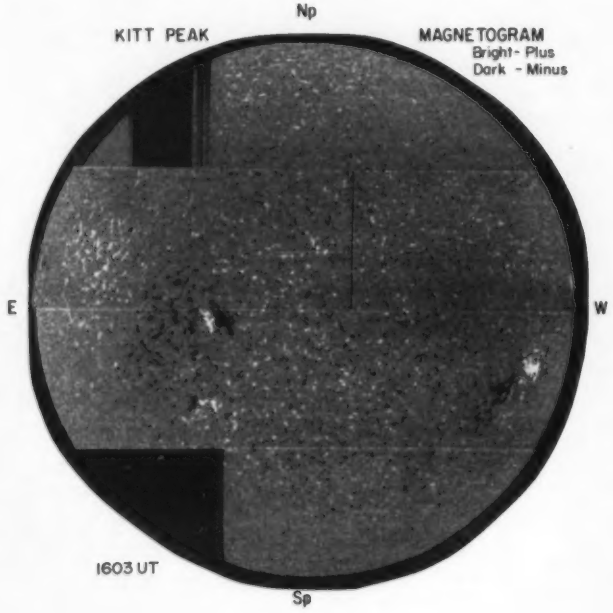
67

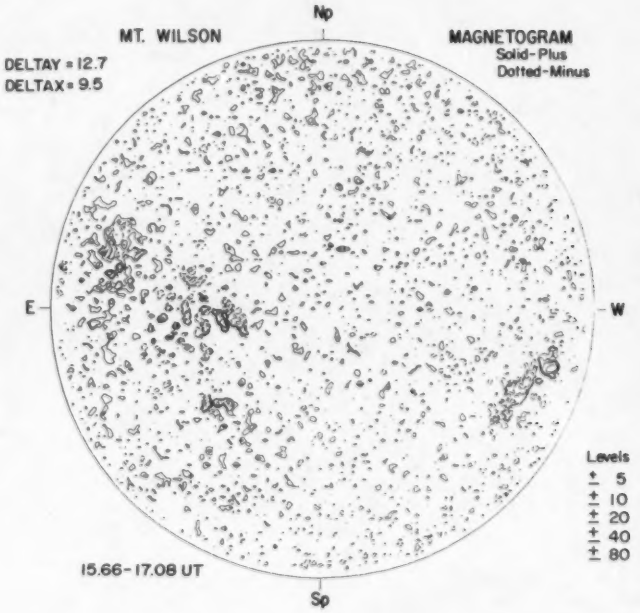
Oct 75

OCTOBER 21, 1975 (P = 25.95, B_0 = 5.42, L_0 = 17.58)







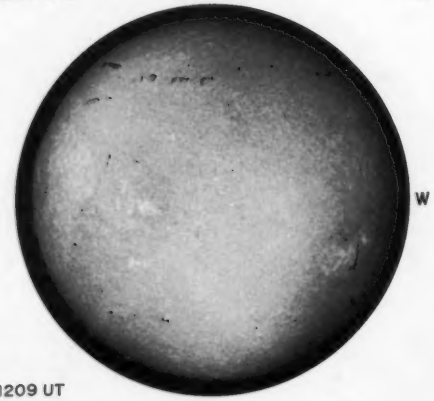


21

RAMEY AFB

Np

Hα



E

W

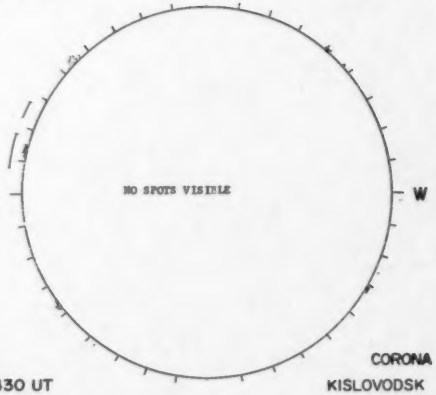
1209 UT

Sp

BOULDER

Np

SUNSPOTS



E

W

CORONA

1430 UT

KISLOVODSK

NO DATA 305°

Sp

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

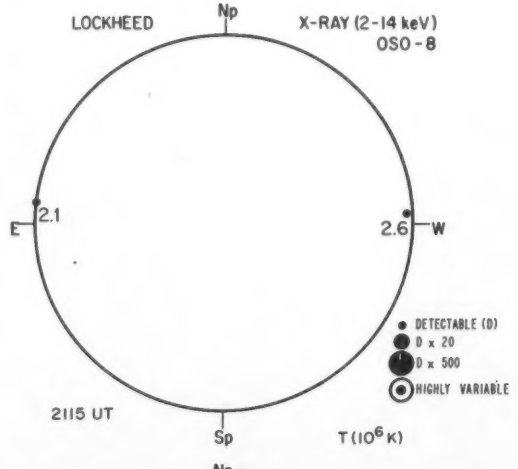
Sp

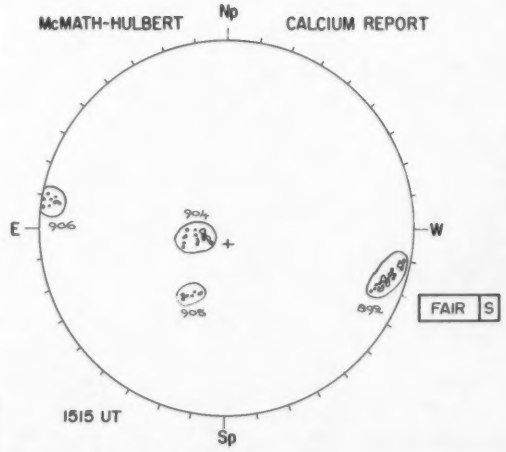
Ant. Temp. Unit 100°K

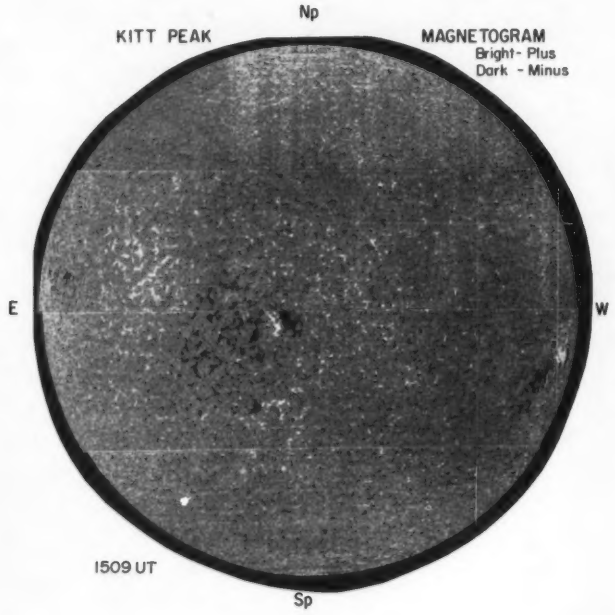
69

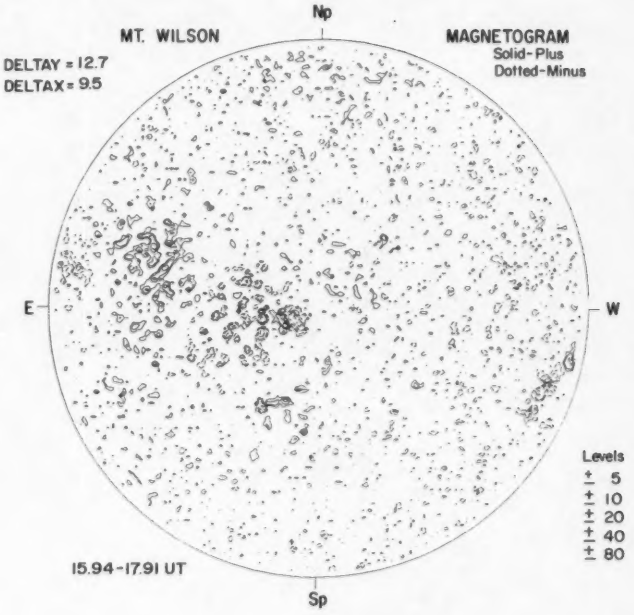
OCT 75

OCTOBER 22, 1975 (P = 25.87, B_0 = 5.34, L_0 = 4.39)







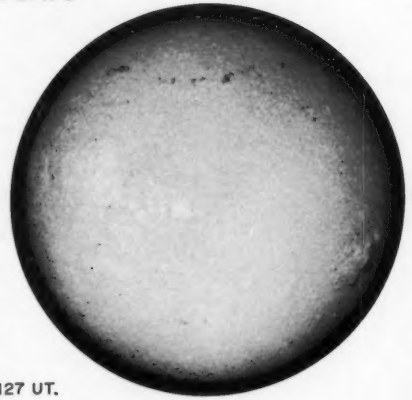


22

RAMEY AFB

Np

Hα



E

W

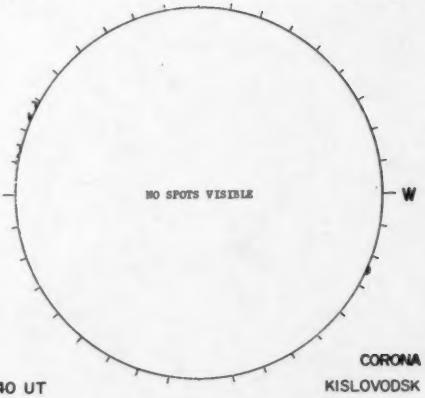
1127 UT.

Sp

BOULDER

Np

SUNSPOTS



E

W

CORONA

1340 UT

KISLOVODSK

Sp

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

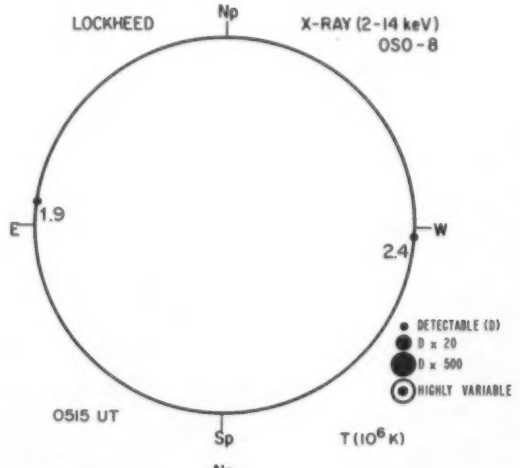
Sp

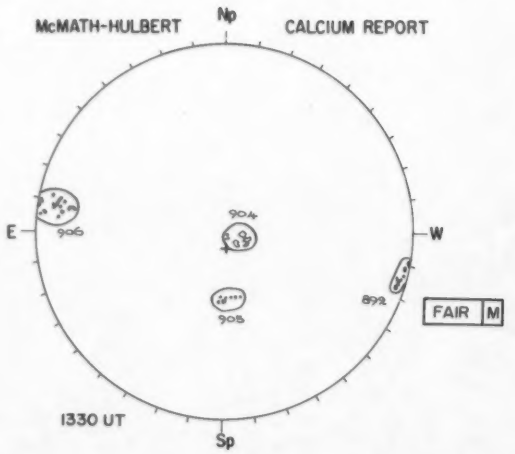
Ant. Temp. Unit 100°K

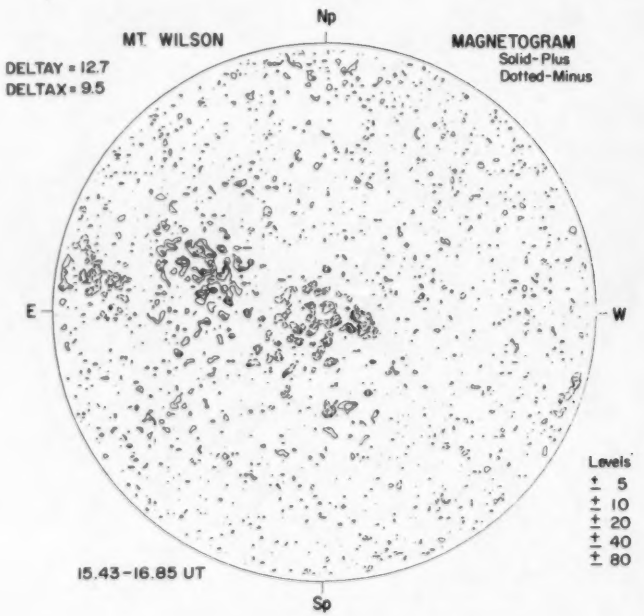
71

Oct 75

OCTOBER 23, 1975 (P = 25.78, B_0 = 5.25, L_0 = 351.20)







23
RAMEY AFB

Np

Hα

E

NO DATA

W

Sp

BOULDER

Np

SUNSPOTS

E

W

CORONA
KISLOVODSK

NO DATA

Sp

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

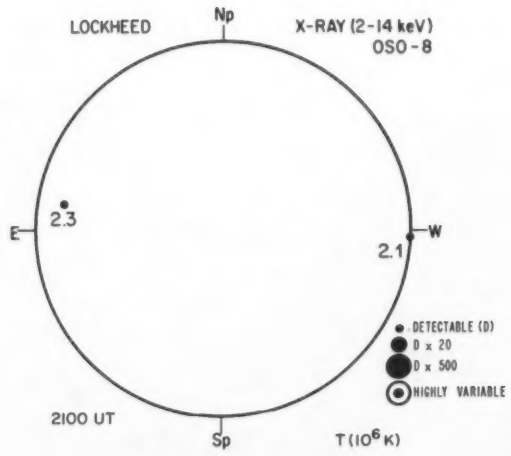
W

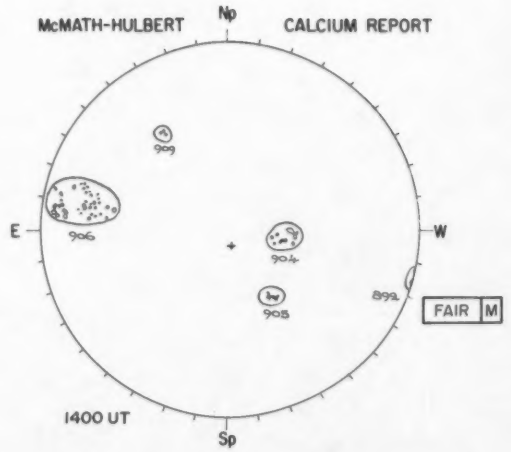
Sp

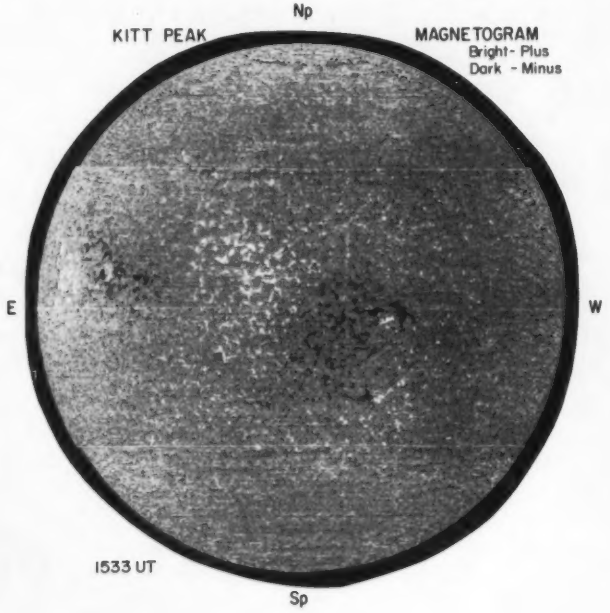
Ant. Temp. Unit 100°K

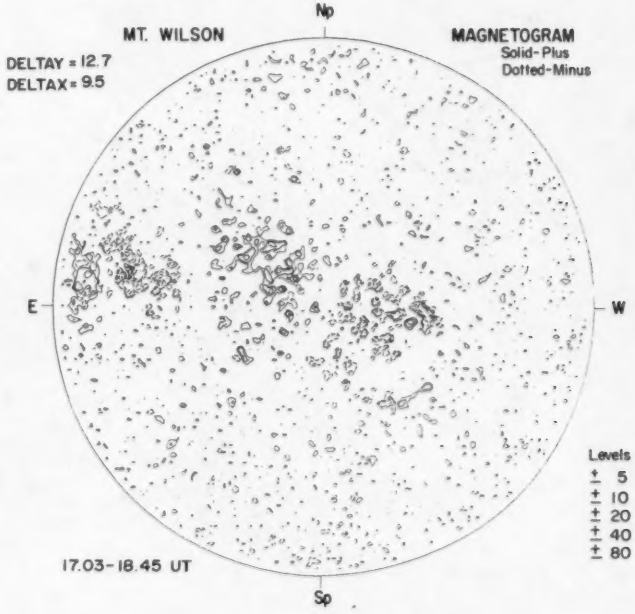
73
Oct 75

OCTOBER 24, 1975 (P = 25.69, B_0 = 5.16, L_0 = 338.01)



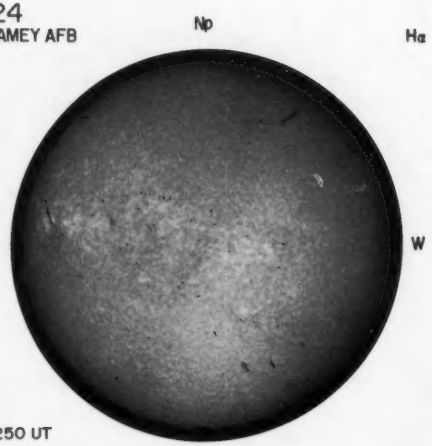




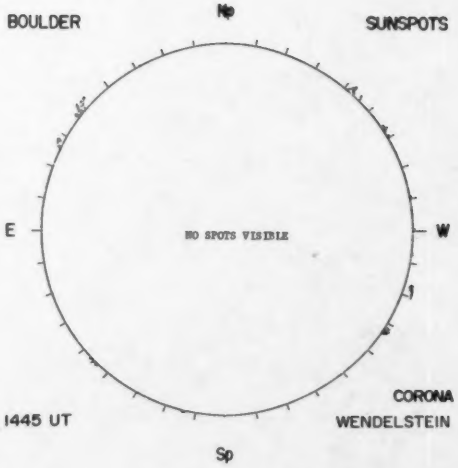


24

RAMEY AFB



BOULDER

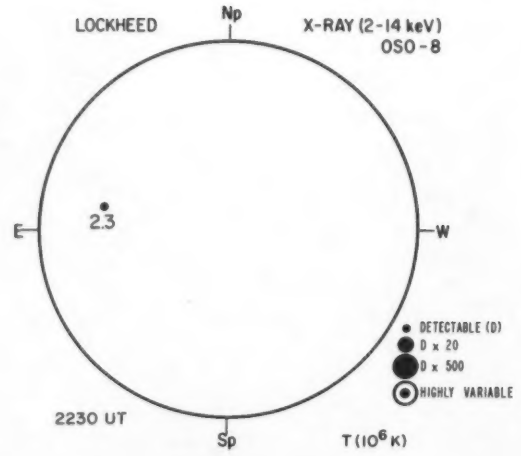


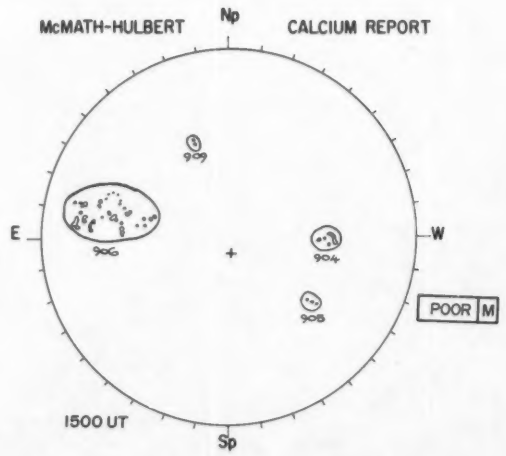
NELC LA POSTA

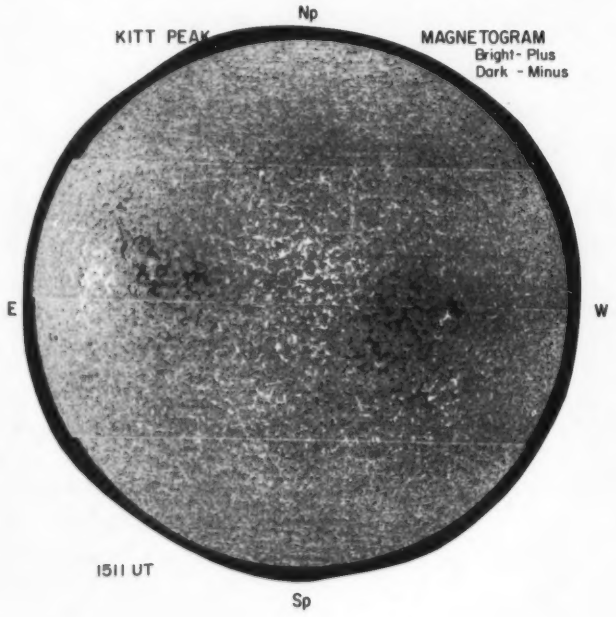
NELC LA POSTA

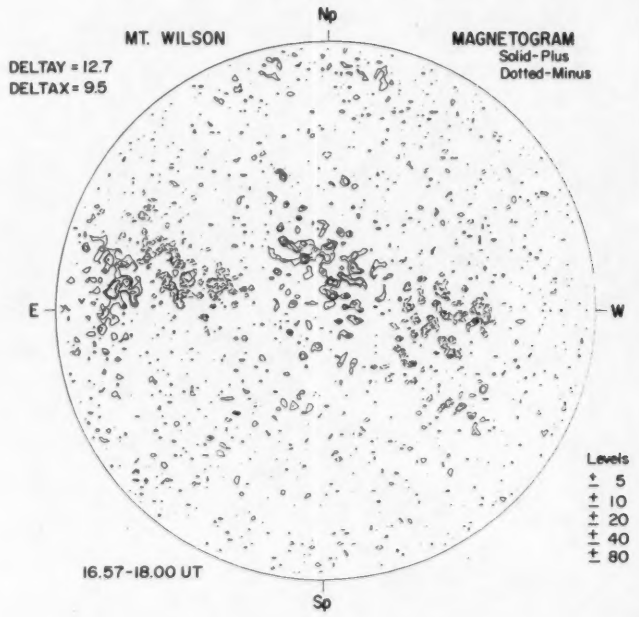
75
Oct 75

OCTOBER 25, 1975 (P = 25.58, B_o = 5.07, L_o = 324.82)







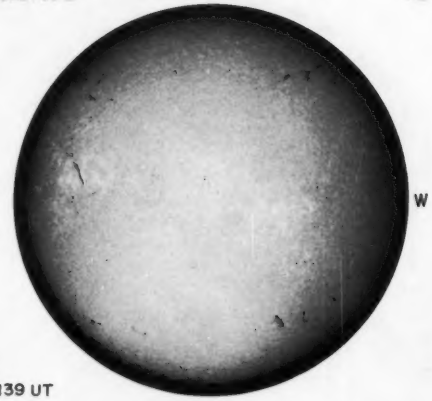


25

RAMEY AFB

Np

Hα



E

W

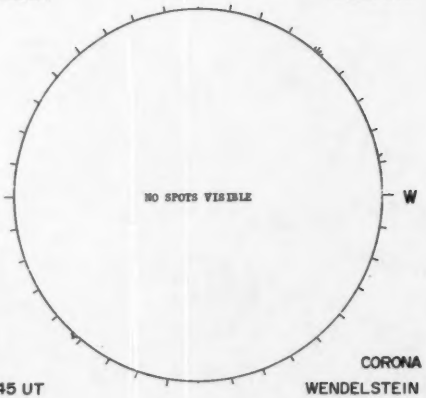
1139 UT

Sp

BOULDER

Np

SUNSPOTS



E

W

CORONA

WENDELSTEIN

1445 UT

Sp

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

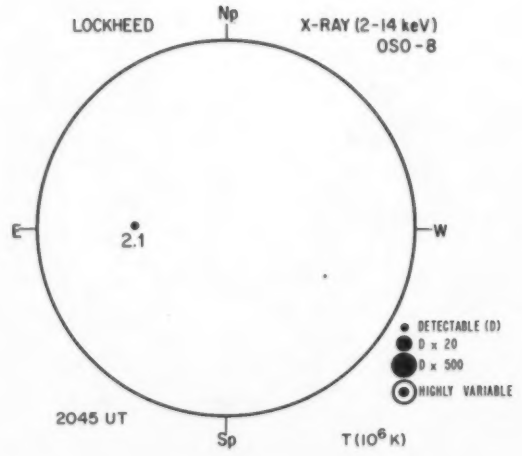
Sp

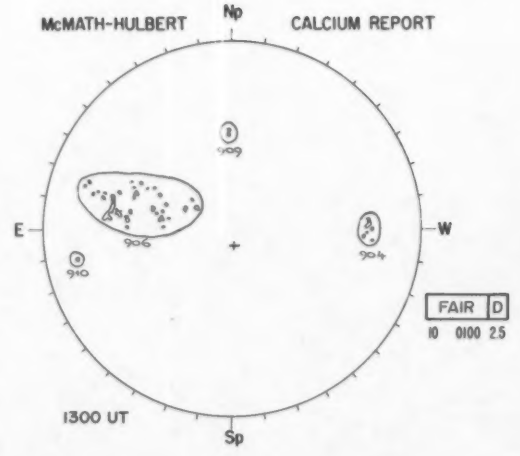
Ant. Temp. Unit 100°K

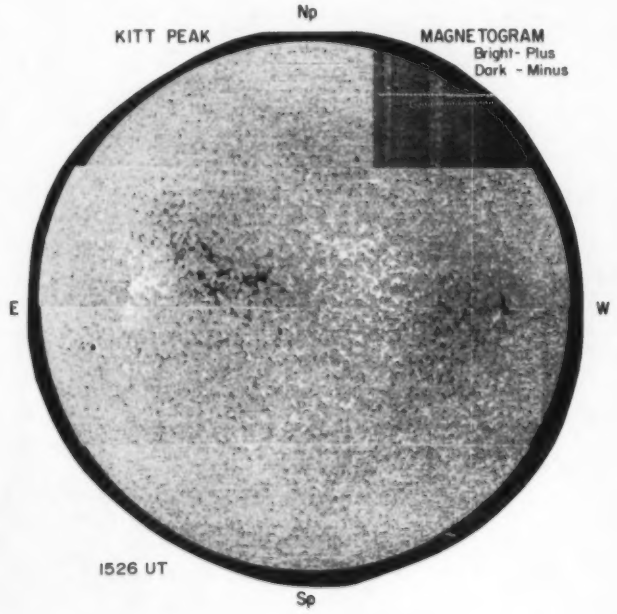
77

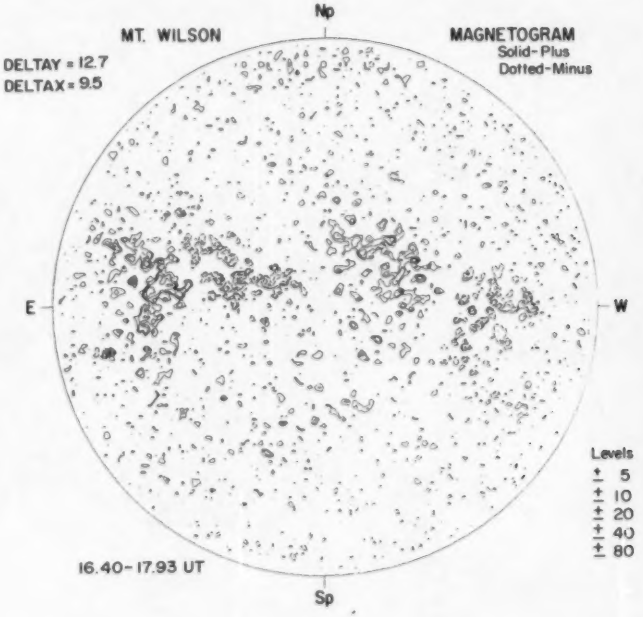
Oct 75

OCTOBER 26, 1975 (P = 25.47, B_o = 4.98, L_o = 311.64)







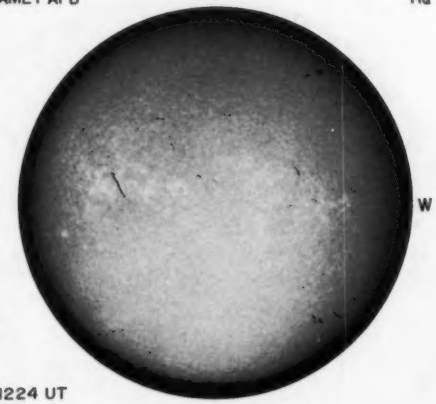


26

RAMEY AFB

Np

Hα



E

W

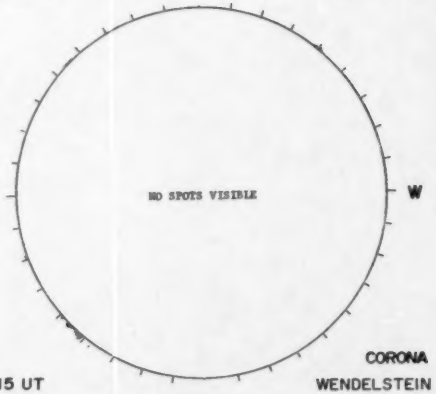
1224 UT

Sp

BOULDER

Np

SUNSPOTS



E

W

CORONA

WENDELSTEIN

1715 UT

Sp

NELC LA POSTA

2.0 CM

Np

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Np

E

W

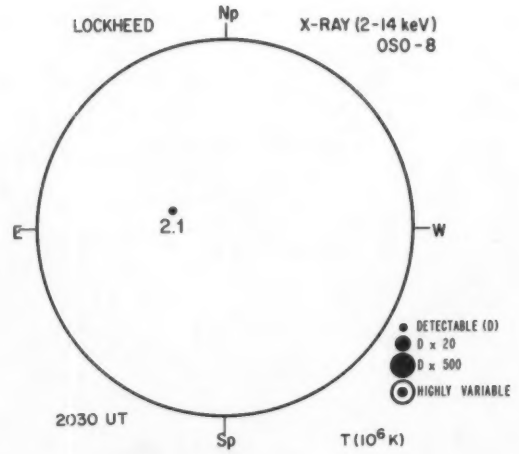
Sp

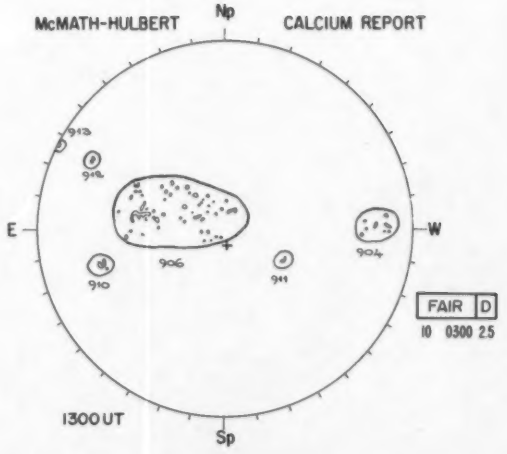
Ant. Temp. Unit 100°K

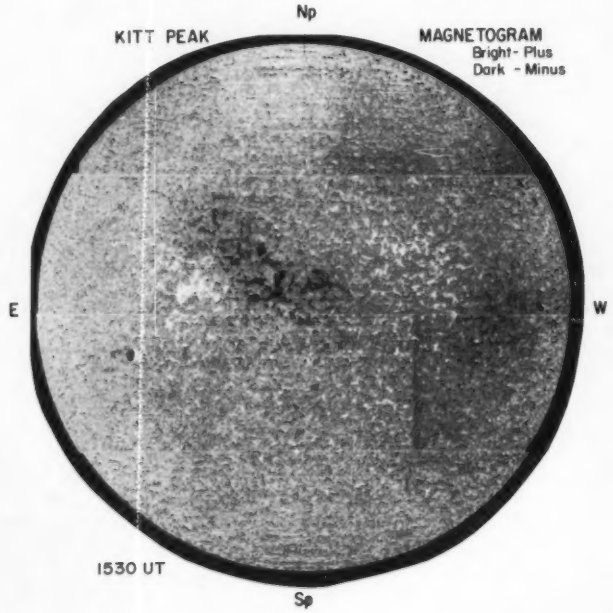
79

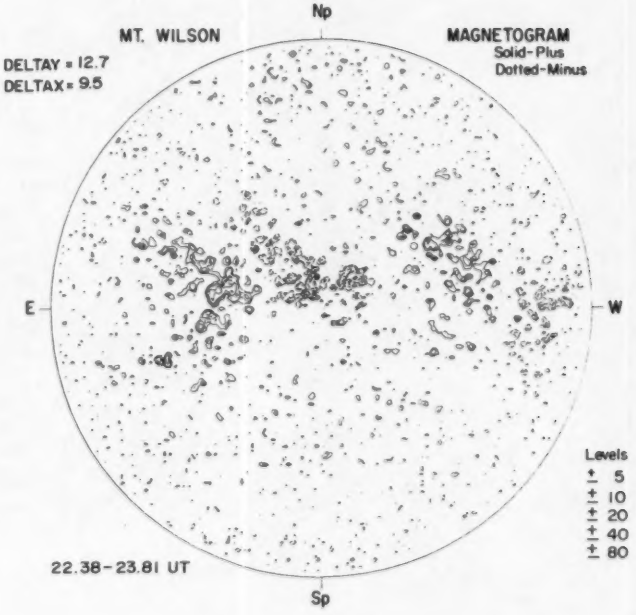
Oct 75

OCTOBER 27, 1975 (P = 25.35, B_o = 4.89, L_o = 298.45)







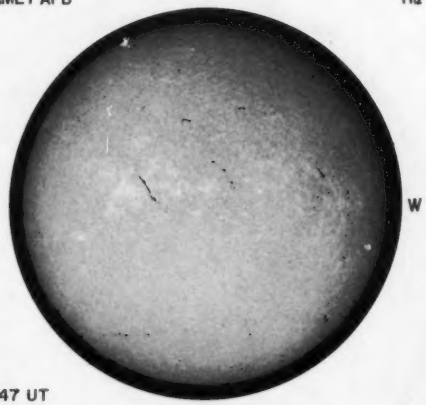


27

RAMEY AFB

Np

Hα



E

W

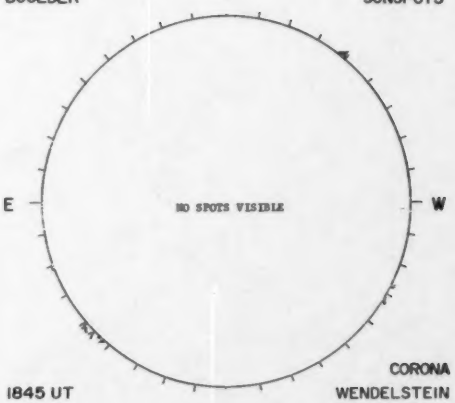
1147 UT

Sp

BOULDER

Np

SUNSPOTS



E

W

CORONA

WENDELSTEIN

1845 UT

Sp

NELC LA POSTA

2.0 CM

Np

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Np

E

W

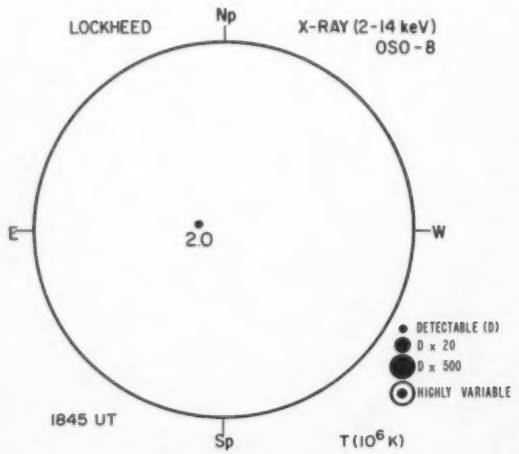
Sp

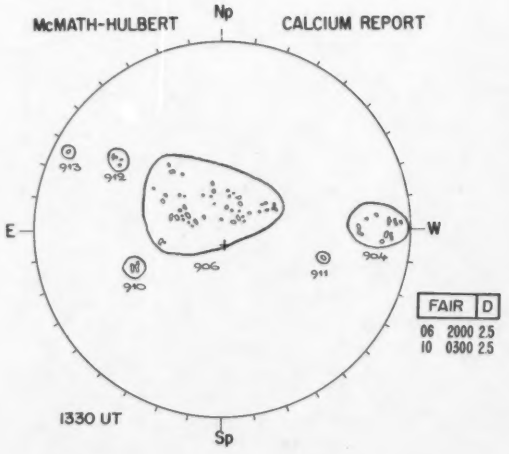
Ant. Temp. Unit 100°K

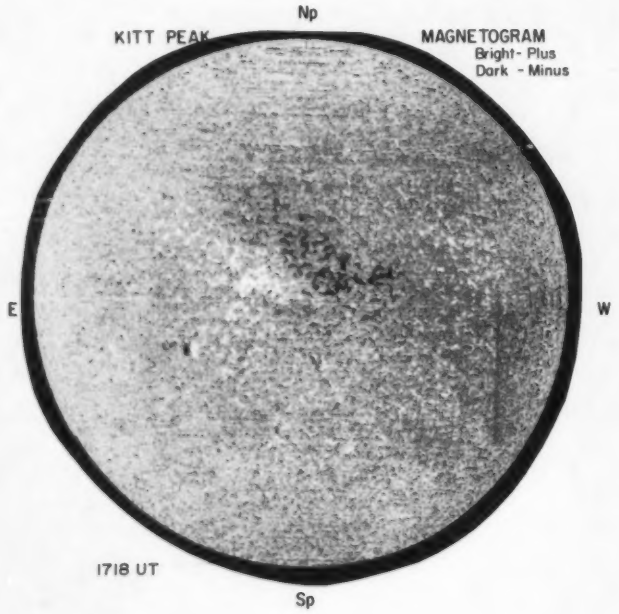
81

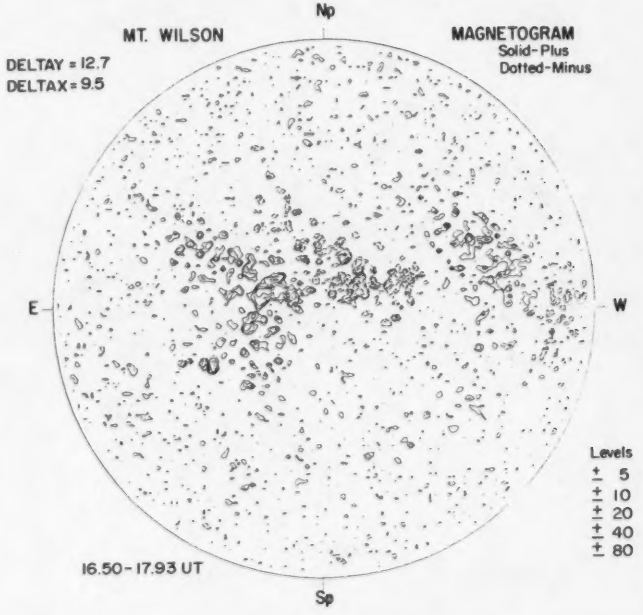
Oct 75

OCTOBER 28, 1975 (P = 25.23, B_o = 4.80, L_o = 285.26)

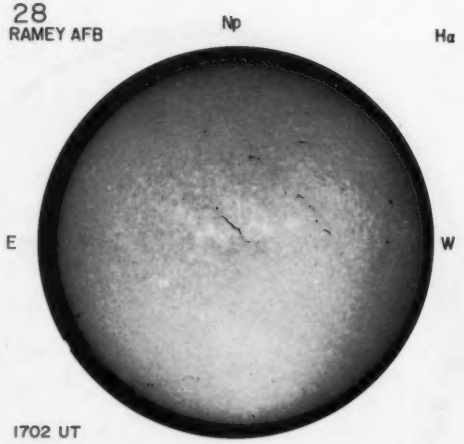






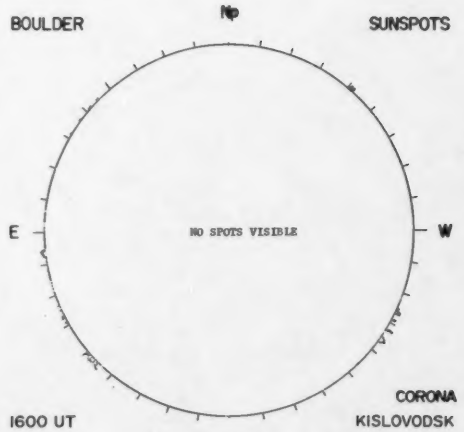


28
RAMEY AFB



1702 UT

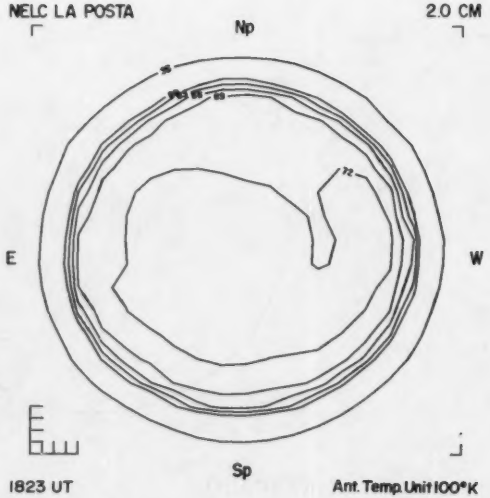
BOULDER



1600 UT

CORONA
KISLOVODSK

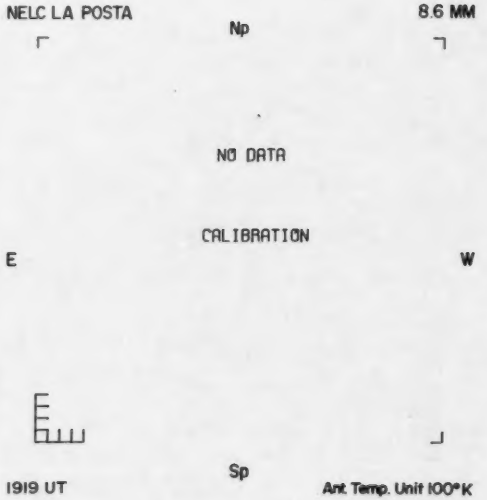
NELC LA POSTA



1823 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

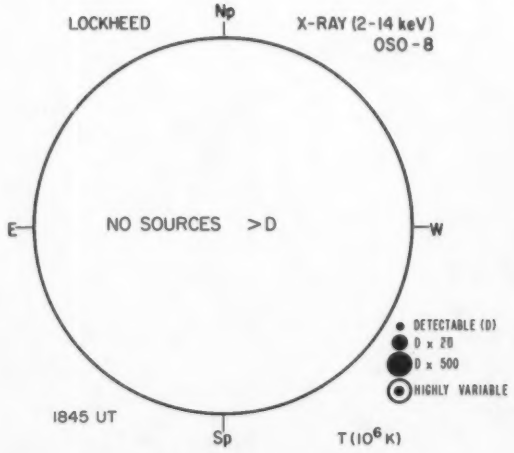


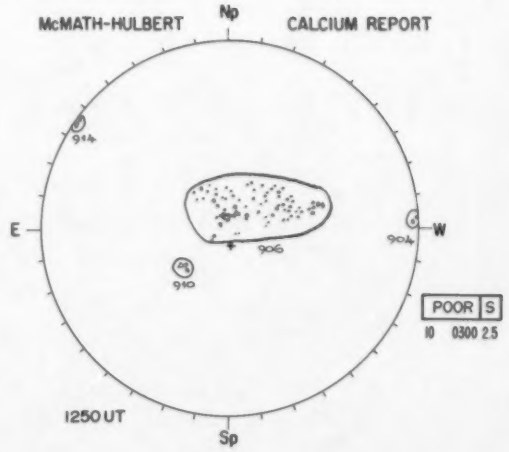
1919 UT

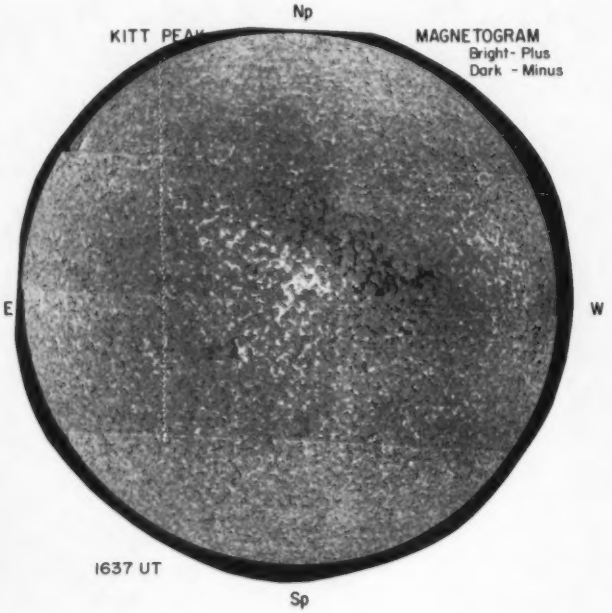
Ant. Temp. Unit 100°K

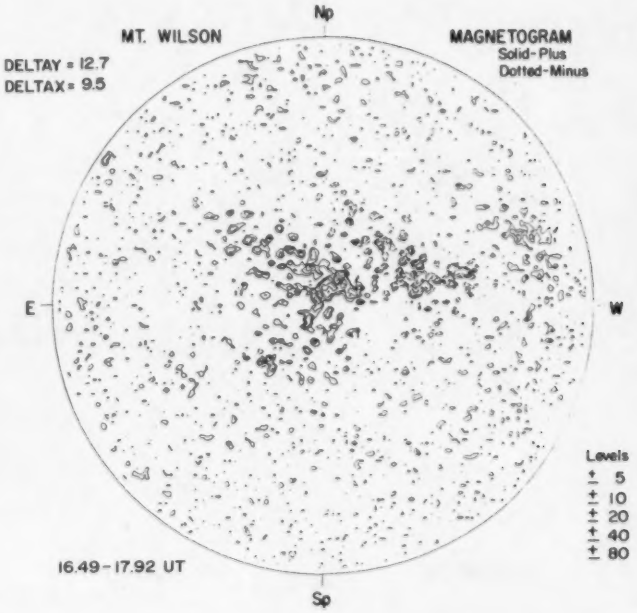
83
Oct 75

OCTOBER 29, 1975 (P = 25.09, B_o = 4.70, L_o = 272.07)

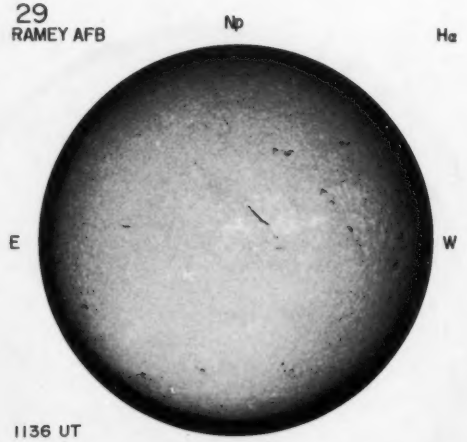






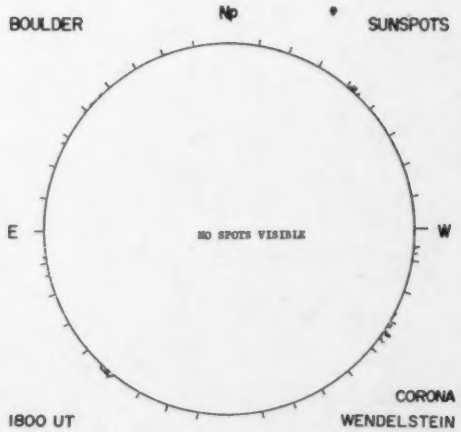


29
RAMEY AFB



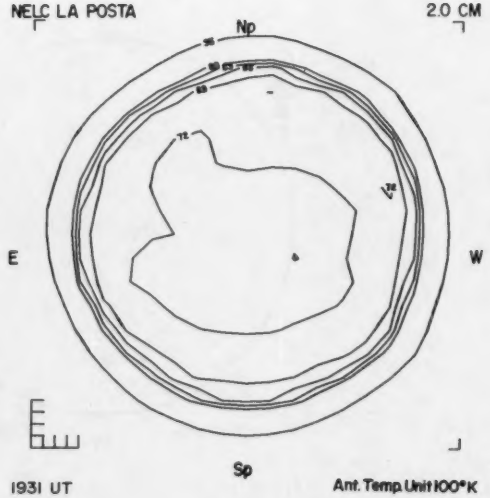
1136 UT

BOULDER



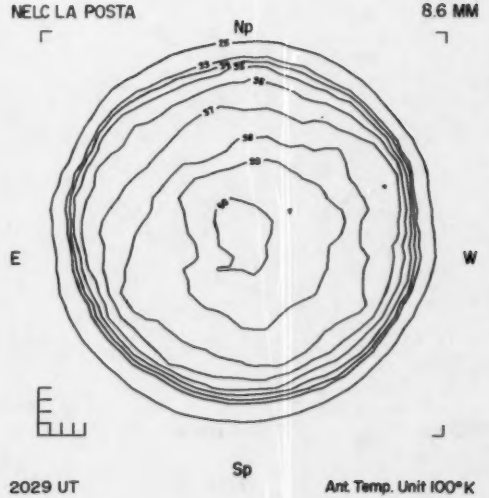
CORONA
WENDELSTEIN
1800 UT

NELC LA POSTA 2.0 CM



1931 UT
Ant. Temp. Unit 100°K

NELC LA POSTA 8.6 MM

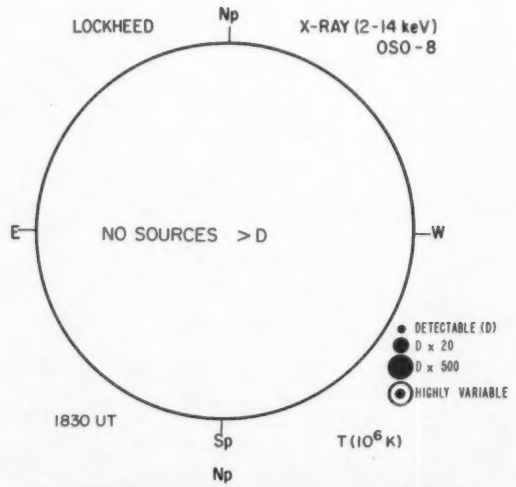


2029 UT
Ant. Temp. Unit 100°K

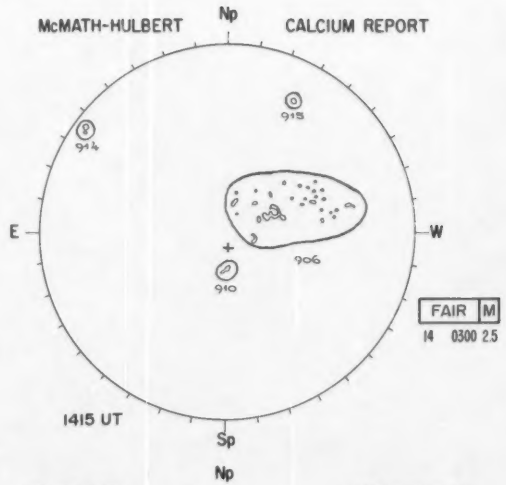
85
Oct 75

OCTOBER 30, 1975 (P = 24.95, B_0 = 4.60, L_0 = 258.89)

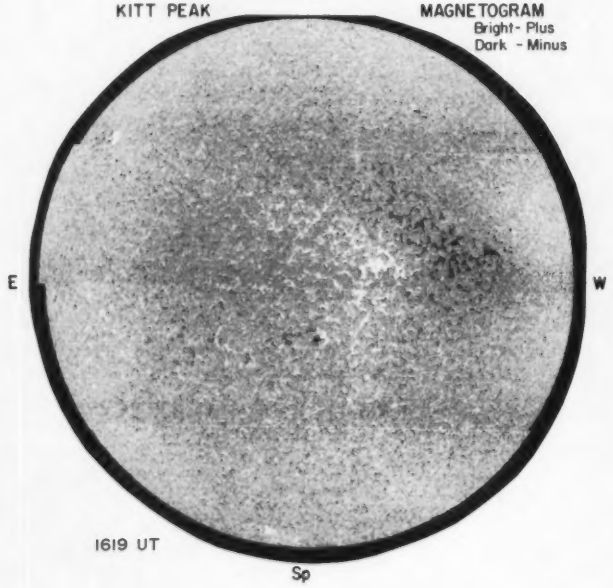
LOCKHEED X-RAY (2-14 keV) OSO-8



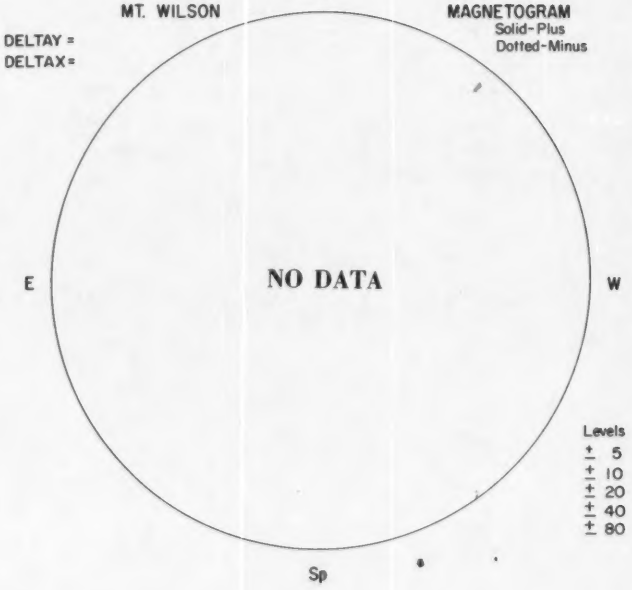
McMATH-HULBERT CALCIUM REPORT



KITT PEAK MAGNETOGRAM
Bright - Plus
Dark - Minus



MT. WILSON MAGNETOGRAM
Solid - Plus
Dotted - Minus
DELTAY =
DELTAX =

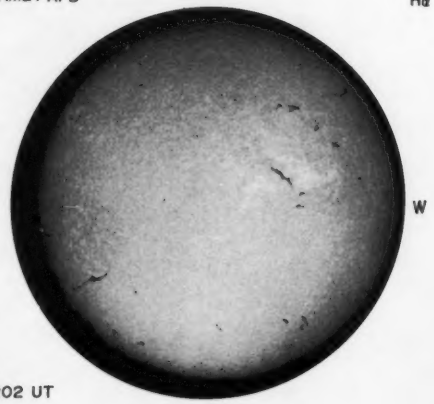


30

RAMEY AFB

Np

Hα



E

W

1202 UT

Sp

BOULDER

Np

SUNSPOTS

E

NO SPOTS VISIBLE

W

1450 UT

CORONA

KISLOVODSK

Sp

NELC LA POSTA

Np

2.0 CM

NO DATA

E

CALIBRATION

W

1647 UT

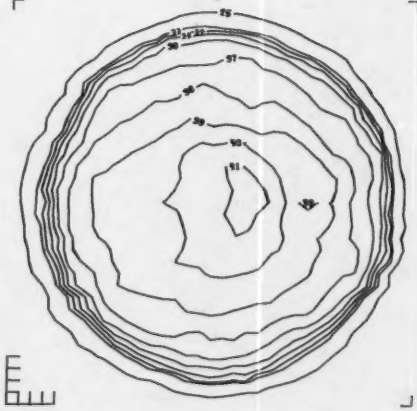
Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM



E

W

1737 UT

Sp

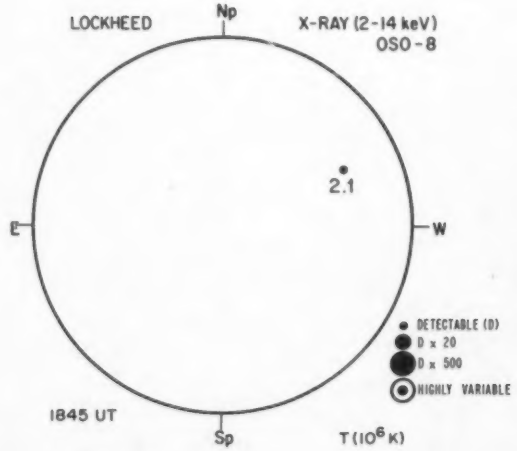
Ant. Temp. Unit 100°K

87

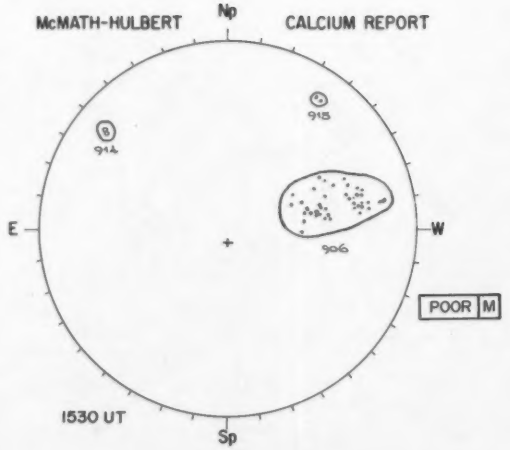
Oct 75

OCTOBER 31, 1975 (P=24.80, B_0=4.50, L_0=245.70)

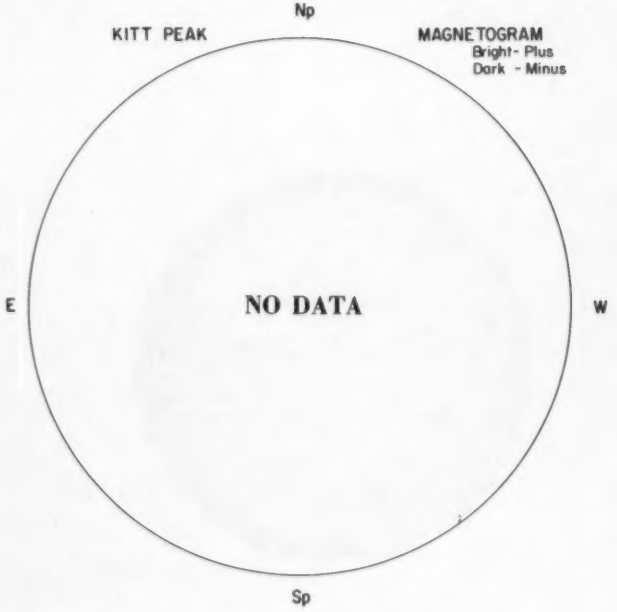
LOCKHEED X-RAY (2-14 keV) OSO-8



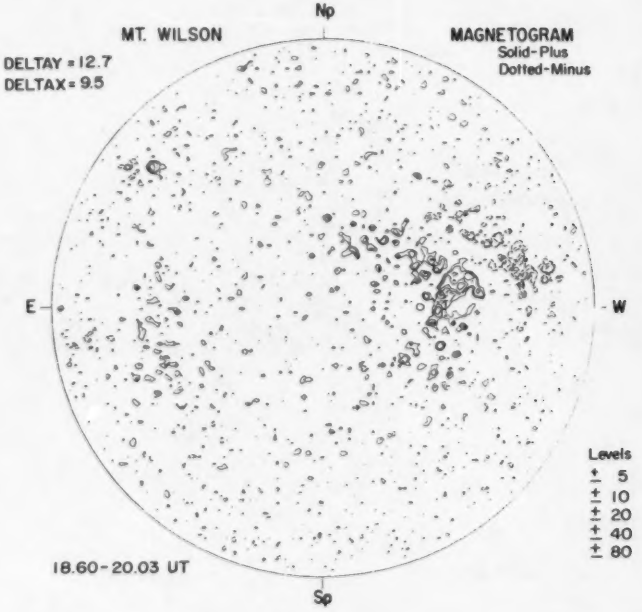
McMATH-HULBERT CALCIUM REPORT



KITT PEAK MAGNETOGRAM
Bright - Plus
Dark - Minus

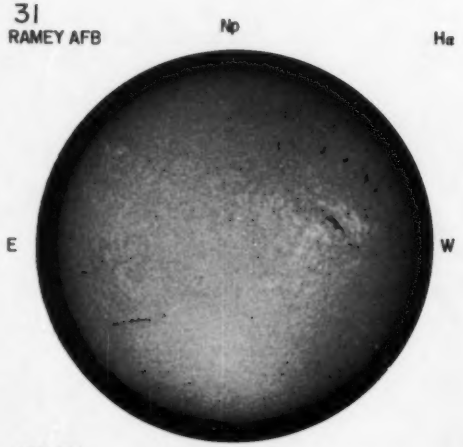


MT. WILSON MAGNETOGRAM
Solid - Plus
Dotted - Minus
DELTAY = 12.7
DELTAX = 9.5



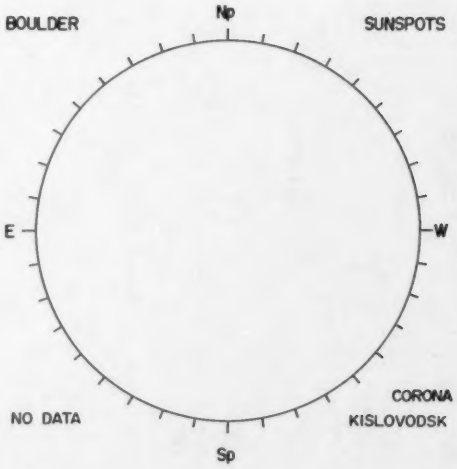
31

RAMEY AFB



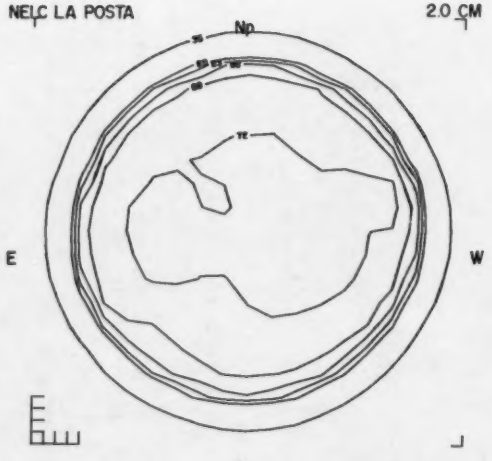
1125 UT

BOULDER



NO DATA

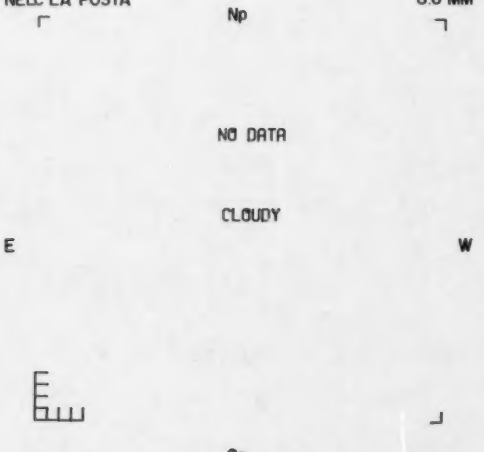
NELC LA POSTA



1907 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



1947 UT

Ant. Temp. Unit 100°K

REGIONS OF SOLAR ACTIVITY

OCTOBER 1975

MCMATH REGION 13873 CMP DATE 1.6

				CALCIUM PLAGE DATA				SUNSPOT DATA						
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT CLASS
75	9	30	13873	S45 E14	273	100	1.5							

MCMATH REGION 13878 CMP DATE 1.7

				CALCIUM PLAGE DATA				SUNSPOT DATA						
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT CLASS
75	10	3	13878	N71 W25	271	200	1.5							

MCMATH REGION 13867 CMP DATE 1.8 RETURN OF REGION 13826 ROTATION 3

				CALCIUM PLAGE DATA				SUNSPOT DATA						
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT CLASS
75	9	24	13867	N10 E88	279	100	1.0							
75	9	27	13867	N10 E58	268	1900	2.0							
75	9	28	13867	N10 E40	274	2300	2.0							
75	9	29	13867	N10 E30	270	2200	2.0							
75	9	30	13867	N10 E17	270	2400	2.5							
75	10	1	13867	N10 E00	270	2200	2.5							
75	10	2	13867	N10 W10	269	2300	2.5							
75	10	3	13867	N10 W23	269	2100	2.5							
75	10	4	13867	N10 W36	270	2500	2.0							
75	10	5	13867	N12 W46	267	2400	2.0							
75	10	6	13867	N10 W60	268	2500	2.0							
75	10	7	13867	N10 W73	266	2300	2.0							
75	10	8	13867	N09 W86	265	900	1.0							

MT. WILSON REGION 19629 CMP DATE 2.7

				CALCIUM PLAGE DATA				SUNSPOT DATA						
YR	MO	DA	MC NO.	LAT CMD	L'	AREA	INT	MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT CLASS
75	10	1						19629	S09 E14	258	(A)	1		

MCMATH REGION 13879 CMP DATE 3.3

				CALCIUM PLAGE DATA				SUNSPOT DATA						
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT CLASS
75	10	3	13879	S21 W04	258	100	1.5							
75	10	4	13879	S21 W17	251	100	1.0							

MCMATH REGION 13874 CMP DATE 4.2

				CALCIUM PLAGE DATA				SUNSPOT DATA						
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT CLASS
75	9	30	13874	S16 E48	239	100	1.0							

MCMATH REGION 13888 CMP DATE 5.8

				CALCIUM PLAGE DATA				SUNSPOT DATA						
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT CLASS
75	10	10	13888	N19 W63	217	100	1.5							

MCMATH REGION 13883 CMP DATE 6.4

				CALCIUM PLAGE DATA				SUNSPOT DATA						
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT CLASS
75	10	6	13883	S47 W02	210	100	1.0							

REGIONS OF SOLAR ACTIVITY

OCTOBER 1975

MCMATH REGION 13889 CMP DATE 6.8

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	10	13889	N14 W50	204	100	1.5									

MCMATH REGION 13875 CMP DATE 7.5

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	30	13875	N32 E87	200	800	2.5	19628	N32 E82	203	(AP)	3	R	100	1	HSX
75	10	1	13875	N33 E74	196	1300	3.5	19628	N33 E72	200	(AP)	4	B	140	1	HSX
75	10	2	13875	N33 E63	196	1300	3.5	19628	N33 E59	199	(AP)	4	B	120	1	HSX
75	10	3	13875	N33 E52	194	1300	3.5	19628	N33 E46	199	(AP)	5	B	90	1	HSX
75	10	4	13875	N33 E40	194	1200	3.0	19628	N33 E33	199	(BP)	5	B	80	1	HSX
75	10	5	13875	N33 E26	195	1300	3.0	19628	N32 E17	198	(BP	5	R	80	1	HSX
75	10	6	13875	N33 E13	195	1200	3.0	19628	N32 E08	198	(BP)	5	B	80	4	HSX
75	10	7	13875	N33 E01	192	1100	3.0									
75	10	8	13875	N33 W13	192	1300	2.5	19628	N32 W18	197	(AP)	5	B	100	1	HSX
75	10	9						19628	N33 W30	196	(BP)	5	B	100	1	HSX
75	10	10	13875	N33 W38	192	1300	2.5	19628	N33 W43	196	(BP	5	B	100	1	HSX
75	10	11	13875	N33 W51	192	1600	2.5		N53 W34				B	100	1	HSX
75	10	12	13875	N33 W63	191	1300	2.0	19628	N33 W70	196	(AP)	4	R	80	1	HSX
75	10	13	13875	N33 W75	189	1100	2.0	19628	N33 W81	194	(AP)	3	B	70	1	HSX
75	10	14	13875	N33 W87	188	700	1.0		N33 W80				B	70	1	HSX

MCMATH REGION 13881 CMP DATE 7.9

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	3	13881	S07 E60	186	400	1.0									
75	10	4	13881	S06 E45	189	400	1.0									
75	10	5	13881	S08 E32	189	400	1.0									
75	10	6	13881	S07 E18	190	400	1.0									
75	10	7	13881	S07 E05	188	400	1.0									
75	10	8	13881	S07 W11	190	400	1.0									
75	10	10	13881	S07 W36	190	300	1.0									
75	10	11	13881	S07 W50	191	300	1.0									
75	10	12	13881	S07 W65	193	300	1.0									

MCMATH REGION 13884 CMP DATE 8.1

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	7	13884	S25 E07	186	100	1.0									

MCMATH REGION 13886 CMP DATE 8.3

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	8	13886	N53 W04	183	100	1.0									

MCMATH REGION 13880 CMP DATE 8.5

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	3	13880	N27 E66	180	100	1.0									
75	10	4	13880	N27 E53	181	200	1.0									

REGIONS OF SOLAR ACTIVITY

OCTOBER 1975

MCMATH REGION 13882 CMP DATE 9.8 RETURN OF REGION 13832 ROTATION 5

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	3	13882	S14 E90	156	300	1.0									
75	10	4	13882	S12 E75	159	400	1.0									
75	10	5	13882	S13 E60	161	500	1.0									
75	10	6	13882	S13 E45	163	400	1.0									
75	10	7	13882	S13 E30	163	400	1.0									
75	10	8	13882	S12 E17	162	500	1.0									
75	10	10	13882	S12 W10	164	300	1.0									
75	10	11	13882	S12 W25	166	400	1.0									
75	10	12	13882	S12 W40	168	500	1.5									
75	10	13	13882	S12 W54	168	400	1.0									

MCMATH REGION 13894 CMP DATE 10.8

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	12	13894	N10 W23	151	200	1.0									

MCMATH REGION 13887 CMP DATE 12.6

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	8	13887	S12 E51	128	300	3.0	19630	S12 E50	129	(BF)	2	8	10	1	AXX
75	10	10	13887	S12 E26	128	400	2.5									
75	10	11	13887	S12 E13	128	500	2.5									
75	10	12	13887	S12 E00	128	400	1.5									
75	10	13	13887	S11 W14	128	300	1.5									
75	10	14	13887	S11 W27	128	300	1.0									
75	10	15	13887	S11 W40	128	200	1.0									
75	10	16	13887	S12 W53	128	200	1.0									

MCMATH REGION 13895 CMP DATE 13.1

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	12	13895	N29 E07	121	100	1.5									

MCMATH REGION 13901 CMP DATE 13.5

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	16	13901	N01 W41	116	100	2.0									

MCMATH REGION 13897 CMP DATE 14.9

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	13	13897	N30 E18	96	100	1.0									

MCMATH REGION 13891 CMP DATE 15.1 RETURN OF REGION 13846 ROTATION 2

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	10	13891	N10 E68	94	200	1.0									
75	10	11	13891	N10 E46	95	300	1.0									
75	10	12	13891	N10 E32	96	300	1.0									
75	10	13	13891	N10 E21	93	300	1.0									

REGIONS OF SOLAR ACTIVITY

OCTOBER 1975

MCMATH REGION 13890 CMP DATE 15.2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	10	13890	N04 E60	94	400	1.0
75	10	11	13890	N05 E46	95	300	1.0
75	10	12	13890	N05 E33	95	300	2.5
75	10	13	13890	N05 E22	92	800	3.5
75	10	14	13890	N05 E08	93	1400	3.5
75	10	15	13890	N05 W06	94	2800	3.5
75	10	16	13890	N05 W19	94	1800	3.0
75	10	17					
75	10	18					
75	10	19					
75	10	20	13890	N06 W76	96	1200	3.0
75	10	21	13890	N05 W87	96	700	2.0

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS
19631	N05 E35	91	(BF)	2			
19631	N05 E19	94	(BP)	5 B	90	22	DAO
19631	N05 E05	93	(BP)	4 B	180	16	DAO
19631	N05 W06	93	(BP)	5 B	220	33	CSO
19631	N05 W21	95	(BP)	5 B	150	7	CSO
19631	N05 W35	95	(BP)	5 B	130	3	CSO
19631	N06 W45	93	(BP)	4 B	130	3	CSO
19631	N06 W59	93	(BP)	3 B	120	5	CSO
19631	N06 W76	97	(AP)	2 B	120	1	HSX
	N05 W83			H	120	1	HSX

MCMATH REGION 13899 CMP DATE 16.0

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	14	13899	N28 E18	83	100	2.0
75	10	15	13899	N28 E05	83	200	1.5
75	10	16	13899	N29 W08	83	300	1.5

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS

MCMATH REGION 13900 CMP DATE 17.0

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	14	13900	N12 E32	69	100	1.5

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS

MCMATH REGION 13892 CMP DATE 17.8 RETURN OF REGION 13849 ROTATION 3

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	11	13892	S09 E84	57	1300	2.0
75	10	12	13892	S12 E68	60	1900	2.0
75	10	13	13892	S12 E55	59	1800	2.5
75	10	14	13892	S13 E43	58	1700	3.0
75	10	15	13892	S13 E28	60	1600	3.0
75	10	16	13892	S13 E15	60	1600	3.0
75	10	17					
75	10	20	13892	S13 W39	59	1500	3.0
75	10	21	13892	S13 W50	59	1200	2.5
75	10	22	13892	S13 W65	59	1400	2.0
75	10	23	13892	S13 W77	60	1200	1.5
75	10	24	13892	S14 W90	60	300	1.0

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS
19632	S14 E17	57	(AF)	1			
19632	S15 E04	56	(AF)	2			

MCMATH REGION 13902 CMP DATE 18.3

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	16	13902	N49 E23	52	100	1.5

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS

MCMATH REGION 13903 CMP DATE 21.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	16	13903	N64 E65	10	100	1.5

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS

REGIONS OF SOLAR ACTIVITY

OCTOBER 1975

MCMATH REGION 13904 CMP DATE 23.2 RETURN OF REGION 13862* ROTATION 6

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	17					
75	10	18					
75	10	20	13904	N02 E33	348	800	2.5
75	10	21	13904	N02 E22	348	700	2.0
75	10	22	13904	N03 E08	347	700	2.0
75	10	23	13904	N03 W05	348	600	2.0
75	10	24	13904	N03 W18	348	400	2.0
75	10	25	13904	N03 W32	348	400	2.0
75	10	26	13904	N03 W45	349	400	2.0
75	10	27	13904	N04 W57	347	500	2.0
75	10	28	13904	N04 W66	343	600	1.5
75	10	29	13904	N04 W78	342	200	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19633	N03 E70	351	(AP)	3	B	10	1	AXX
19633	N04 E60	349	(BP)	2	B	10	1	AXX

MCMATH REGION 13905 CMP DATE 23.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	19					
75	10	20	13905	S18 E36	345	400	3.0
75	10	21	13905	S17 E26	344	300	2.5
75	10	22	13905	S16 E12	343	200	2.0
75	10	23	13905	S16 E00	343	200	1.5
75	10	24	13905	S16 W14	344	200	1.0
75	10	25	13905	S16 W27	343	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19634	S16 E49	346	(AP)	2	B	10	1	AXX
19635	S15 E26	356	AP					

MCMATH REGION 13911 CMP DATE 26.2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	27	13911	S05 W18	308	100	2.0
75	10	28	13911	S04 W32	309	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13909 CMP DATE 26.6

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	24	13909	N36 E26	304	100	1.0
75	10	25	13909	N36 E14	302	100	1.5
75	10	26	13909	N36 E01	303	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13915 CMP DATE 28.2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	30	13915	N48 W32	283	200	1.5
75	10	31	13915	N48 W44	281	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13906 CMP DATE 28.9 RETURN OF REGION 13867 ROTATION 4

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	22	13906	N10 E75	280	700	1.0
75	10	23	13906	N10 E68	275	1000	1.5
75	10	24	13906	N10 E54	276	1300	2.0
75	10	25	13906	N10 E40	276	1400	2.0
75	10	26	13906	N10 E28	276	1600	2.0
75	10	27	13906	N10 E15	275	2100	2.0
75	10	28	13906	N10 E04	273	2000	2.5

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

(Cont'd)

*An asterisk beside the "Return of Region" number indicates that the new region is only part of the area of the old region.

REGIONS OF SOLAR ACTIVITY

OCTOBER 1975

(Cont'd)

75	10	29	13906	N10 W10	274	1600	2.0
75	10	30	13906	N10 W20	271	1700	2.0
75	10	31	13906	N10 W33	270	1600	1.5
75	11	2	13906	N10 W60		1300	2.0
75	11	4	13906	N08 W85		500	1.0

MCMATH REGION 13917 CMP DATE 30.3

				CALCIUM	PLAGE	DATA			SUNSPOT	DATA					
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	11	2	13917	S03 W45		300	1.5									

MCMATH REGION 13910 CMP DATE 30.7

				CALCIUM	PLAGE	DATA			SUNSPOT	DATA					
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	26	13910	S07 E56	248	100	2.5									
75	10	27	13910	S07 E42	248	300	2.5									
75	10	28	13910	S07 E29	248	300	2.5									
75	10	29	13910	S07 E15	249	300	2.5									
75	10	30	13910	S07 E01	250	200	2.0									

MCMATH REGION 13912 CMP DATE 31.5

				CALCIUM	PLAGE	DATA			SUNSPOT	DATA					
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	27	13912	N25 E51	239	200	1.5									
75	10	28	13912	N26 E39	238	200	1.5									

MCMATH REGION 13918 CMP DATE 31.5

				CALCIUM	PLAGE	DATA			SUNSPOT	DATA					
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	11	2	13918	N38 W28		200	1.5									

No calcium spectroheliograms were obtained at the McMath-Hulbert Observatory on October 9, 17, 18 and 19, 1975.
No sunspot observations were made at Mt. Wilson Observatory on October 7 and 11, 1975.

DAILY CALCIUM PLAGE INDEX

OCTOBER 1975

YR	MO	DAY	INDEX	YR	MO	DAY	INDEX	YR	MO	DAY	INDEX
75	10	1	8.0	75	10	11	4.4	75	10	21	3.8
75	10	2	8.0	75	10	12	4.7	75	10	22	3.0
75	10	3	7.8	75	10	13	6.4	75	10	23	2.3
75	10	4	6.8	75	10	14	9.0	75	10	24	2.5
75	10	5	6.7	75	10	15	11.4	75	10	25	3.0
75	10	6	6.0	75	10	16	10.4	75	10	26	3.5
75	10	7	4.8	75	10	17	*	75	10	27	5.4
75	10	8	4.1	75	10	18	*	75	10	28	6.3
75	10	9	*	75	10	19	*	75	10	29	3.9
75	10	10	4.0	75	10	20	6.7	75	10	30	3.9
								75	10	31	2.3

* NO OBSERVATIONS

SUDDEN IONOSPHERIC DISTURBANCES

OCTOBER 1975

DAY	UNIVERSAL TIME				WIDE SPREAD INDEX	NUMBER OF STATION REPORTS BY TYPE							KNOWN FLARE	McMATH REGION
	START	END	MAX	IMP		SWF	SCNA	SEA	SPA	LF-SPA	SES	SFD		
14	0808	0838	0810	1-	1				1				0808	13890

PERIODS OF NO OBSERVATIONS:

DATE	TIME (UT) and STATION
01-07	0000-2400 A4
03-18	0000-2400 TA
03	1820-2000 UM (10 kHz)
07	0000-2400 TN, 1805-1850 TM
08	0858-0935 TM
09	0000-2400 A28, 1358-1416 TM
10	0000-2400 A28
11	1649-1840 TM, 2320-2400 TM
12	0000-0108 TM
16	2208-2400 TM, 2230-2400 UM (13 kHz)
17	0000-0434 TM, 0000-2400 A4, 1730-2400 TM, 2213-2400 UM (13 kHz)
18	0000-0146 TM
19-20	0000-2400 A4
21	1254-1448 TM, 1744-1813 TM, 2300-2400 MC
22	0000-1215 MC
24	2020-2150 TM
25-31	0000-2400 A28
26-31	0000-2400 A4
27	1723-2400 UM (13 kHz)
28	0635-1235 MC
29	2141-2220 TM
30	0000-2400 A29
31	0000-2400 A29, 2124-2204 TM

STATIONS REPORTING FOR OCTOBER 1975

AAVSO (A1, A4, A19, A21, A28, A29, A31, A32, A33, A34, A35, A37, A40) (SES) (A1, A26, A31) (SEA) (A31) (SWF)
AQUIPA (AQ) (SPA)
DARMSTADT (DA) (SWF)
DEBRE SEIT(DE) (SPA)
HERMANUS (HS) (SEA)
HERSTMONCEUX (HC) (SEA)
HIRAISO (HI) (SWF)
HOBART (TA) (SEA)
HUANCAYO (HU) (SWF)
INUBO (IN) (SPA)
KULA (KL) (SPA)
MCMATH (MC) (SWF, SCNA)
PANSKA VES (PU) (SWF, SEA, SES)
POITIERS (PO) (SEA)
PRESTON (LO) (SEA)
SAO PAULO (UM) (SES, SPA)
SOFIA (SF) (SES)
ST CLOUD (SC) (SES)
TABLE MOUNTAIN (TM) (SPA, LF-SPA)
TORINO (TN) (SPA)
UPICE (UI) (SEA)

SID's BY McMATH REGION

OCTOBER 1975

DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
REGION 90														1																	
X-RAY																															
UNKNOWN																															
NO FP																															

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION START UT	TIMES OF OBSERVATION END UT	STATION	EVENTS: DECIMETRIC BAND START UT	DECIMETRIC BAND END UT	DECIMETRIC BAND INT	METRIC BAND START UT	METRIC BAND END UT	METRIC BAND INT	DEKAMETRIC BAND START UT	DEKAMETRIC BAND END UT	DEKAMETRIC BAND INT	SPECTRAL TYPE
01	0000	0942	MANI										
	0000	0722	CULG										
	0000	0100	BOUL										
	0604	1655	DURN										
	1044	2222	SGMR										
	1130	1615	WEIS										
	1308	2400	BOUL										
	1316	2245	HARV										
	2022	2400	CULG										
	2145	2400	MANI										
02	0000	0941	MANI										
	0000	0722	CULG										
	0000	0100	BOUL										
	0606	1650	DURN										
	0611	1520	WEIS										
	1045	2220	SGMR										
	1114	1240	OWIN										
	1300	2400	BOUL										
	1317	2245	HARV										
	1530	1615	WEIS										
	2022	2400	CULG										
	2145	2400	MANI										
03	0000	0940	MANI										
	0000	0721	CULG										
	0000	0100	BOUL										
	0604	1648	DURN										
	0612	1617	WEIS										
	1046	2218	SGMR										
	1300	2040	BOUL										
	1317	2245	HARV										
	2023	2400	CULG										
	2145	2400	MANI										
04	0000	0939	MANI										
	0000	0721	CULG										
	0603	1645	DURN										
	0614	1502	WEIS										
	1048	2216	SGMR										
	1300	2400	BOUL										
	1316	2245	HARV										
	2145	2400	MANI										
	2021	2400	CULG				2210.5						IIIB,W
			CULG				2243						IIIB,W
05	0000	0100	BOUL										
	0000	0156	MANI										
	0202	0749	MANI										
	0000	0721	CULG				0452	0721					IIIN,W
			CULG	0516			0516						IIIB,W
	0805	0939	MANI										
	0603	1643	DURN	0850.2	0850.3	3	0850.2	0850.3	2				IIIG
			DURN	0852.1	0852.7	2							IIIG
			DURN	1034.9	1036.2	2							IIIG
			DURN	1036.5	1036.9	2	1036.7	1036.9	2				IIIG
			DURN	1039.8	1040.3	2	1039.8	1040.3	2				IIIGG
	1048	2215	SGMR										
			DURN	1458.2	1458.3	1	1458.2	1458.3					IIIG
			DURN	1521.2	1523.4	3	1521.2	1523.4	3				IIIGG
	1300	2400	BOUL				1521.9	1522.5	1	1521.9	1522.5	1	III
	1317	2245	HARV				1521	1523	2				IIIGG
	2021	2400	CULG				2021	2400					IIIN,W
			CULG				2023	2024	1	2023	2024	1	IIIG
			CULG	2027	2027.5	1	2027	2027.5	2	2027	2027.5	2	IIIG
			HARV				2027		2	2027		2	IIIB
	2145	2400	MANI										
06	0000	0937	MANI										
	0000	0100	BOUL										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
06	0000	0716	CULG				0000	0716					IIIN,W
	0603	1642	DURN										
	0810	1609	WEIS										
	0821	1200	DWIN	0821	1200	1	0821	1200	1				IN
			DWIN				0833.7	0833.8	1				IIIG
			DWIN				0841.3		1				IIIB
			DWIN				0848.1	0848.4	1				IIIG
			DWIN				0901.2		1				IIIB
			DWIN				0901.6	0901.7	1				IIIG
			DWIN				0953.5	0955.2	1				IIIG
	1049	2213	SGMR										
			DWIN	1114.1	1114.5	1	1114.1	1114.5	1				IIIG
	1300	2400	BOUL				1745.9	1746.2	1	1745.9	1746.2	1	III
	1316	2245	HARV				1746		3	1746		3	IIIG
	2021	2400	CULG	2100	2400								IS,W
	2146	2400	MANI										
07	0000	0935	MANI										
	0000	0720	CULG				0000	0720					IIIN,W
			CULG	0000	0210								IS,W
	0000	0030	BOUL										
			CULG				0409	0410	1	0409	0410	1	IIIG
			CULG	0602.5	0603	1	0602.5	0603	1	0602.5	0603	1	IIIG
			CULG	0626	0626.5	1	0626	0626.5	1				IIIG
	0617	1610	WEIS				0630.4	0630.9	1				IIIG
	0614	1641	DURN	0630.4	0630.7	1	0630.4	0630.7	1				IIIG
			CULG	0630	0631	1	0630	0631	2	0630	0631	1	IIIG
	1051	2211	SGMR										
	0854	1326	DWIN	1158.6		1	1158.6		1				IIIB
	1317	2245	HARV										
	1300	2400	BOUL				1439.2	1441.5	1	1439.2	1441.5	1	IIIG
	2147	2400	MANI										
	2020	2400	CULG				2155	2159					IIIG,W
			CULG				2319						IIIB,W
08	0000	0720	CULG										
	0000	0030	BOUL										
	0000	0934	MANI										
	0603	1639	DURN										
	0619	0749	WEIS										
	0800	1600	WEIS										
	0953	1332	DWIN	0953	1332	1	0953	1332	1				IN
			DWIN	1103.0	1103.8	1							IIIG
			DWIN	1106.1	1106.5	1							IIIG
	1317	2245	HARV				1656	1700	3	1656	1700	3	IIIGG,V,U
	1300	2400	BOUL				1657.8	1700.5	2	1657.8	1700.5	2	IIIG
	1052	2209	SGMR							1658.7	1700.1	2	V
			SGMR							1845.8	1846.2	1	III
			BOUL				1845.8	1846.4	1	1845.8	1846.4	1	IIIG
			HARV				1846	1847	2	1846	1847	2	IIIG
	2020	2100	CULG										
	2146	24//	MANI										
	2200	2400	CULG										
			CULG	2337	2341	1							IIIG
			CULG				2342.5	2345	1				II
			CULG	2352	2358	1							I
09	0000	0720	CULG										
	0000	0030	BOUL										
	0000	0934	MANI										
	0624	1603	WEIS										
	0603	1636	DURN	0946	1636 D	3	0946	1636 D	3				I,DC,N
	1053	2208	SGMR										
	1300	2400	BOUL										
	1317	2245	HARV										
	2146	2400	MANI										
	2020	2400	CULG				2344.5		1	2345		1	IIIB
10	0000	0030	BOUL										
	0000	0932	MANI										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION START UT	TIMES OF OBSERVATION END UT	STATION	EVENTS DECIMETRIC BAND START UT	DECIMETRIC BAND END UT	DECIMETRIC BAND INT	METRIC BAND START UT	METRIC BAND END UT	METRIC BAND INT	DEKAMETRIC BAND START UT	DEKAMETRIC BAND END UT	DEKAMETRIC BAND INT	SPECTRAL TYPE
10	0000	0719	CULG	0259	0300	1							IIIG
			CULG	0407.5	0408.5	1							IIIG
			CULG				0523.5		1				IIIB
			CULG	0535.5	0537	1	0535.5	0536	1				IIIG
	0625	0828	WEIS										
	0603	1633	DURN	0902.7	0903.4	2	0902.7	0903.4	1				IIIG
	0837	1557	WEIS				0902.8	0903.4	1				IIIG
	1054	2206	SGMR										
	1300	2400	BOUL										
	1332	2245	HARV										
	2019	2400	CULG				2034						IIIB,W
	2146	2400	MANI										
11	0000	0932	MANI										
	0000	0719	CULG										
	0000	0030	BOUL										
	0603	1633	DURN										
	0628	1559	WEIS										
	1055	2204	SGMR										
	1300	2400	BOUL										
	1331	2245	HARV										
	2019	2400	CULG										
	2147	2400	MANI										
12	0000	0931	MANI										
	0000	0030	BOUL										
	0000	0719	CULG	0221	0222	1	0221.5	0222	1				IIIG
	0605	0739	DURN	0606.9	0607.0	2							I
	0630	0922	WEIS										
	0752	1630	DURN										
	1056	2203	SGMR										
	1300	2400	BOUL										
	1332	2245	HARV										
	2019	2400	CULG										
	2147	2400	MANI										
13	0000	0931	MANI										
	0000	0719	CULG										
	0000	0030	BOUL										
	0640	1259	WEIS										
	1057	2201	SGMR										
	0608	1617	DURN	1202.4	1202.5	3							III
	1300	2400	BOUL										
	1331	2245	HARV										
	1450	1558	WEIS										
	2019	2400	CULG										
	2148	2400	MANI										
14	0000	0928	MANI										
	0000	0718	CULG										
	0000	0030	BOUL										
	0608	1617	DURN										
	0638	0950	WEIS										
	1059	2159	SGMR							1327.9	1328.3	1	III
	1510	1547	WEIS										
	1300	2400	BOUL							1629.4	1630.0	1	III
	1334	2245	HARV				1629	1630	2	1629	1630	2	IIIB
	2018	2400	CULG				2120.5		1				IIIB
			CULG				2138	2139					IIIG,W
	2147	2400	MANI										
15	0000	0030	BOUL										
	0000	0357	CULG	0212	0245		0212	0357					IIIN,W
			CULG	0305	0357	1							IS
	0000	0928	MANI							0402.0	0402.4	3	III
	0520	0718	CULG				0520	0718					IIIN,W
			CULG	0520	0718	1							IS
	0609	1620	DURN	0609 E	1620 D	3	0609 E	1620 D	2				I,C,N,DC
			DURN	0842.1	0842.3	3	0842.1	0842.3	3				IIIG,U,RS
			DURN	0843.8	0843.9	1							IIIRS

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION START UT	TIMES OF OBSERVATION END UT	STATION	EVENTS DECIMETRIC BAND START UT	DECIMETRIC BAND END UT	DECIMETRIC BAND INT	METRIC BAND START UT	METRIC BAND END UT	METRIC BAND INT	DEKAMETRIC BAND START UT	DEKAMETRIC BAND END UT	DEKAMETRIC BAND INT	SPECTRAL TYPE
15	0935	1550	WEIS				0935	1520	1				IN
			WEIS				1027.9	1028.8	1				IIIG
			WEIS				1050.1	1050.5	1				IIIG
	1100	2158	SGMR										
			WEIS				1217.8	1218.6	1				IIIG
	2018	2400	CULG	2018	2400	1							IS
			CULG				2018	2400					IIIN,W
			CULG				2129.5	2130	1	2129.5	2130	1	IIIG
	1300	2400	BOUL				2129.5	2129.9	1	2129.5	2129.9	1	III
	1330	2245	HARV				2129	2130	2	2129	2130	2	IIIB
	2147	2400	MANI										
			BOUL				2242.5	2243.0	1	2242.5	2243.0	1	III
			CULG				2242	2243	2	2242	2243	1	IIIG
			CULG	2244		1	2244		1				IIIB
16	0000	0716	CULG	0000	0716								IS,W
	0000	0030	BOUL										
	0000	0928	MANI										
			CULG				0105						IIIB,W
			CULG				0539						IIIB,W
	0609	1620	DURN	0609 E	1103	3	0609 E	1103	2				I,C,N,DC
	0708	1540	WEIS										
	1101	2156	SGMR										
	0635	0704	WEIS				1102.7	1102.8	1				IIIB
	1332	2245	HARV										
	1300	2400	BOUL							1600.2	1600.5	1	III
	2147	2400	MANI										
	2018	2400	CULG	2329	2400								IS,W
			CULG				2358		1				IIIB
17	0000	0030	BOUL										
	0000	0927	MANI							0116.4	0116.6	2	III
	0000	0717	CULG	0116	0116.5	1	0116	0117	2	0116	0117	2	IIIG,U,V
			CULG				0219.5		1				IIIB
			CULG	0244	0247	1	0244	0247	2				IIIG,U
			CULG	0315	0430								IS,W
			CULG	0453.5	0454	1	0453.5	0454	1				IIIG
			CULG				0554.5						IIIB,W
	0610	0629	DURN										
			CULG	0646.5	0652.5	1	0646.5	0652.5	1				IIIGG,U
	0637	0947	WEIS				0648.2	0649.6	2				IIIG
	0649	1620	DURN	0649.4	0649.5	2							IIIG
			DURN	0649.8	0650.2	2							IIIG
			DURN	0649	1620 D	2	1051	1620 D	2				I,C,N,DC
			DURN	0651.2	0651.7	1							IIIG
	0708	1540	WEIS				0833.8	0835.0	2				IIIG
			WEIS				1051.3	1052.8	3				IIIGG
			WEIS				1201.4	1201.8	1				IIIB
			WEIS				1203.4	1204.1	3				IIIG
			DURN	1203.9	1204.1	3	1203.9	1204.1	3				IIIG,RS
			WEIS				1204.0	1204.3	3				VB
	1102	2155	SGMR							1204.2	1205.2	2	V
	1300	2400	BOUL										
	1331	2245	HARV										
	2147	2400	MANI										
	2017	2400	CULG				2259.5						IIIB,W
18	0000	0030	BOUL										
	0000	0925	MANI										
	0000	0717	CULG	0100	0717								IS,W
	0611	1614	DURN	0611 E	1614	3	0611 E	1614	2				I,C,N,DC
	0642	1537	WEIS				0712	0730	1				IS
			WEIS				0839.4	0839.5	2				IIIB
	1103	2153	SGMR										
	1300	2400	BOUL										
	1331	2245	HARV										
	2147	2400	MANI										
	2017	2400	CULG	2300	2400								IS,W
19	0000	0717	CULG										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION START UT	TIMES OF OBSERVATION END UT	STATION	EVENTS DECIMETRIC BAND START UT	DECIMETRIC BAND END UT	DECIMETRIC BAND INT	METRIC BAND START UT	METRIC BAND END UT	METRIC BAND INT	DEKAMETRIC BAND START UT	DEKAMETRIC BAND END UT	DEKAMETRIC BAND INT	SPECTRAL TYPE
19	0000	0030	BOUL										
	0000	0925	MANI										
	0612	1614	DURN	0612 E	1614 O	2							I,C,N,DC
	0646	1233	WEIS										
	1105	2151	SGMR										
	1331	2245	HARV										
	1300	2400	BOUL				2144.1	2145.0	2	2144.1	2145.0	2	IIIG
	2017	2400	CULG	2144	2145	1	2144	2146	1	2144	2146	1	IIIG
	2148	2400	MANI										
			CULG				2157		1				IIIB
			CULG	2212	2213	1							IIIG
			CULG				2312		1				IIIB,U
			CULG	2340.5	2341.5	1							IIIG
20	0000	0030	BOUL										
	0000	0925	MANI										
	0000	0717	CULG	0111	0112	1							IIIG
			CULG				0144	0145	1				IIIG
			CULG	0250	0717								IS,W
			CULG	0409	0411.5	1	0410.5	0411.5	1				IIIG
	0613	1610	DURN	0613 E	1610 O	3	0613 E	1610 O	1				I,C,N,DC
	0828	1446	DWIN	0828	1446	1	0828	1446	1				IN
			DURN	0853.3	0853.4	3	0853.3	0853.4	2				III
			DURN	0853.5	0853.6	2	0853.5	0853.6	1				III
			DWIN	0858.5	0900.0	2	0858.5	0900.0	2				IIIG
			DURN	0859.2	0859.4	2							IIIG
			DWIN	0936.3	0937.5	2	0936.7	0937.5	2				IIIG
	0649	1529	WEIS				0937.4	0937.6	1				IIIG
			DWIN	1105.0	1107.0	2							IIIG
	1106	2150	SGMR										
			DWIN				1226.1		1				IIIB
			DWIN	1300.5	1302.2	1	1300.5	1302.2	1				IIIG
	1300	2400	BOUL										
	1330	2245	HARV										
	2017	2400	CULG	2115.5	2116.5	1	2115.5	2116.5	1				IIIG
			CULG	2123	2125	1							IIIG
	2148	2400	MANI										
			CULG	2325	2325.5								IIIG,W
21	0000	0712	CULG	0000	0712								IS,W
	0000	0030	BOUL										
	0000	0721	MANI										
			CULG				0604		1				IIIB
	0614	1610	DURN	0614 E	1610	1							I,N
	0649	1416	WEIS										
	0812	0925	MANI										
	1300	2400	BOUL										
	1330	2245	HARV										
	2017	2400	CULG										
	1107	2148	SGMR							2112.9	2121.2	2	IV
	2148	2400	MANI										
22	0000	0923	MANI										
	0000	0717	CULG										
	0000	0030	BOUL										
	0615	0652	DURN										
	0705	1610	DURN										
	0905	1520	WEIS										
	1108	2147	SGMR										
	1300	2400	BOUL										
	1330	2245	HARV										
	2017	2400	CULG										
	2148	2400	MANI										
23	0000	0923	MANI										
	0000	0716	CULG										
	0617	1610	DURN										
	0655	1525	WEIS										
	1109	2145	SGMR										
	1300	2400	BOUL										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
23	1331	2245	HARV										
	2016	2400	CULG										
	2148	2400	MANI										
24	0000	0922	MANI										
	0000	0716	CULG										
	0000	0030	BOUL										
	0618	1605	DURN										
	1111	2144	SGMR										
	1330	2400	BOUL										
	1330	2245	HARV										
	2016	2400	CULG										
	2149	2400	MANI										
25	0000	0922	MANI										
	0000	0716	CULG										
	0000	0030	BOUL										
	0620	1605	DURN										
	1112	2142	SGMR										
	1330	2400	BOUL										
	1330	2245	HARV										
	2016	2400	CULG										
	2149	2400	MANI										
26	0000	0922	MANI										
	0000	0716	CULG										
	0000	0030	BOUL										
	0619	1600	DURN										
	1113	2141	SGMR										
	1330	2400	BOUL										
	1330	2245	HARV										
	2016	2400	CULG										
	2149	2400	MANI										
27	0000	0921	MANI										
	0000	0716	CULG				0223						IIIB,W
			CULG				0228	0229					IIIG,W
	0622	0757	DURN										
	0705	1513	WEIS										
	1114	2139	SGMR										
	1330	2400	BOUL										
	1331	2345	HARV										
	2016	2400	CULG										
	2149	2400	MANI										
28	0000	0921	MANI										
	0000	0716	CULG				0244.5	0245.5					IIIG,W
			CULG				0247	0248					IIIG,W
	0623	1600	DURN										
	0703	1514	WEIS										
	0842	0950	DWIN										
	1116	2138	SGMR										
	1330	2345	HARV										
	1536	2400	BOUL										
	2149	2400	MANI										
	2016	2400	CULG	2312.5	2313.5	1	2312.5	2314	2	2312.5	2314	2	IIIG
29	0000	0716	CULG										
	0000	0921	MANI										
	0625	1555	DURN										
	0704	1025	WEIS										
	1117	2137	SGMR										
	1330	2400	BOUL										
	1331	2345	HARV										
	1333	1509	WEIS										
	2016	2400	CULG										
	2149	2400	MANI										
30	0000	0921	MANI										
	0000	0716	CULG										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
30	0627	1555	DURN										
	0707	1509	WEIS										
	1118	2135	SGMR										
	1330	2400	BOUL										
	1331	2345	HARV										
	2016	2400	CULG										
	2150	2400	MANI										
31	0000	0921	MANI										
	0000	0716	CULG										
	0632	1550	DURN										
	0708	1400	WEIS										
	1119	2134	SGMR										
	1330	2400	BOUL										
	1331	2343	HARV										
	2016	2400	CULG				2047.5						IIIB,W
	2150	2400	MANI										

SELECTED SOLAR EVENTS

OCTOBER 1975

Culgoora

UT Date 1975 OCT.	HELIOGRAPH EVENT							Spectral Type	REMARKS
	Start (UT)	End (UT)	Freq. (MHz)	Positions		Polarization	Intensity (1-3)		
				Central Dist. ($R_\odot$)	Position Angle (Deg.)				
7	0409	0410	160	0.4	30	0	†		
			80	0.6	30	0		IIIG	
			43.25	0.8	30	-			
8	2342	2345	160	0.6	0	0			
			80	0.7	0	0		II	
15	2242	2244	160	0.8	340	0			
			80	1.0	340	0		IIIG	
			43.25	1.2	330	-			
17	0244	0246	160	1.0	130	0			
			80	1.1	130	0		IIIG	Not recording at 43.25 MHz

Days without Heliograph observations: ....Daily observations.....

† Because of equipment modifications which are in progress, intensity classifications are not available for this month. An indication of intensities can be obtained from the corresponding entries in "Solar Radio Emission - Spectral Observations"

COSMIC RAY INDICES

(Neutron Monitors)

OCTOBER 1975

OCT. 1975	THULE Average cts/hr	ALERT Average cts/hr	DEEP RIVER Average cts/hr	CALGARY Average cts/hr	SULPHUR MT Average cts/hr	KIEL Average cts/hr	CLIMAX Average cts/hr	TOKYO Average cts/hr
1	4563.0			11833.9	9016.1	6334.8	4242.9	3544.7
2	4558.3			11816.7	9031.8	6326.5	4246.9	3537.7
3	4565.1			11842.2	9055.5	6339.5	4243.2	3539.0
4	4583.0			11886.3	9072.8	6359.0	4272.0	3545.7
5	4599.7			11924.0	9107.9	6359.7	4285.3	3551.2
6	4567.6			11856.3	9001.9	6331.7	4279.5	3555.5
7	4557.7			11826.6	8971.6	6337.8	4291.6	3547.6
8	4517.5			11714.2	8900.8	6319.7	4275.5	3542.2
9	4482.5			11698.0	8864.2	6312.5	4248.7	3530.5
10	4455.3			11706.0	8868.6	6315.4	4240.0	3536.3
11	4485.6			11707.5	8883.3	6305.2	4244.7	3528.2
12	4475.6			11743.7	8902.2	6308.7	4254.4	3526.4
13	4481.4			11762.8	8909.2	6336.0	4256.5	3527.5
14	4472.5			11785.1	8926.3	6348.0	4261.8	3536.8
15	4480.8			11823.8	8972.3	6343.1	4248.7	3537.0
16	4455.1			11747.4	8897.2	6316.3	4222.1	3531.0
17	4428.6			11717.5	8874.1	6285.1	4202.3	3524.7
18	4420.3			11696.6	8878.6	6273.4	4189.1	3517.7
19	4395.5			11631.7	8814.2	6234.4	4160.5	3514.6
20	4391.2			11655.9	8841.0	6253.2	4169.7	3525.0
21	4408.2			11732.2	8898.0	6266.9	4192.9	3536.7
22	4418.2			11755.1	8927.1	6270.5	4207.7	3539.4
23	4429.2			11773.9	8949.5(23)	6277.4	4212.2	3540.0
24	4439.5			11790.4	8925.1(21)	6281.5	4170.2	3538.4
25	4444.1			11803.7	-- (0)	6268.2	4149.2	3543.0
26	4455.3			11789.3	-- (0)	6278.7	4150.4	3548.3
27	4478.3			11832.8	9007.7(6)	6311.0	4197.1	3555.4
28	4486.7			11856.3(23)	9002.1	6323.9	4234.6	3545.0
29	4509.8			11856.3(23)	9002.4	6345.0	4253.9	3552.1
30	4515.4			11871.8	9014.9	6348.7	4258.9	3545.0
31	4542.6			11912.4(20)	9028.1	6388.6	4304.7	3552.6
MEAN	4485.9			11785.5	8949.8	6312.9	4231.2	3538.6

Not available at time of publication

Not available at time of publication

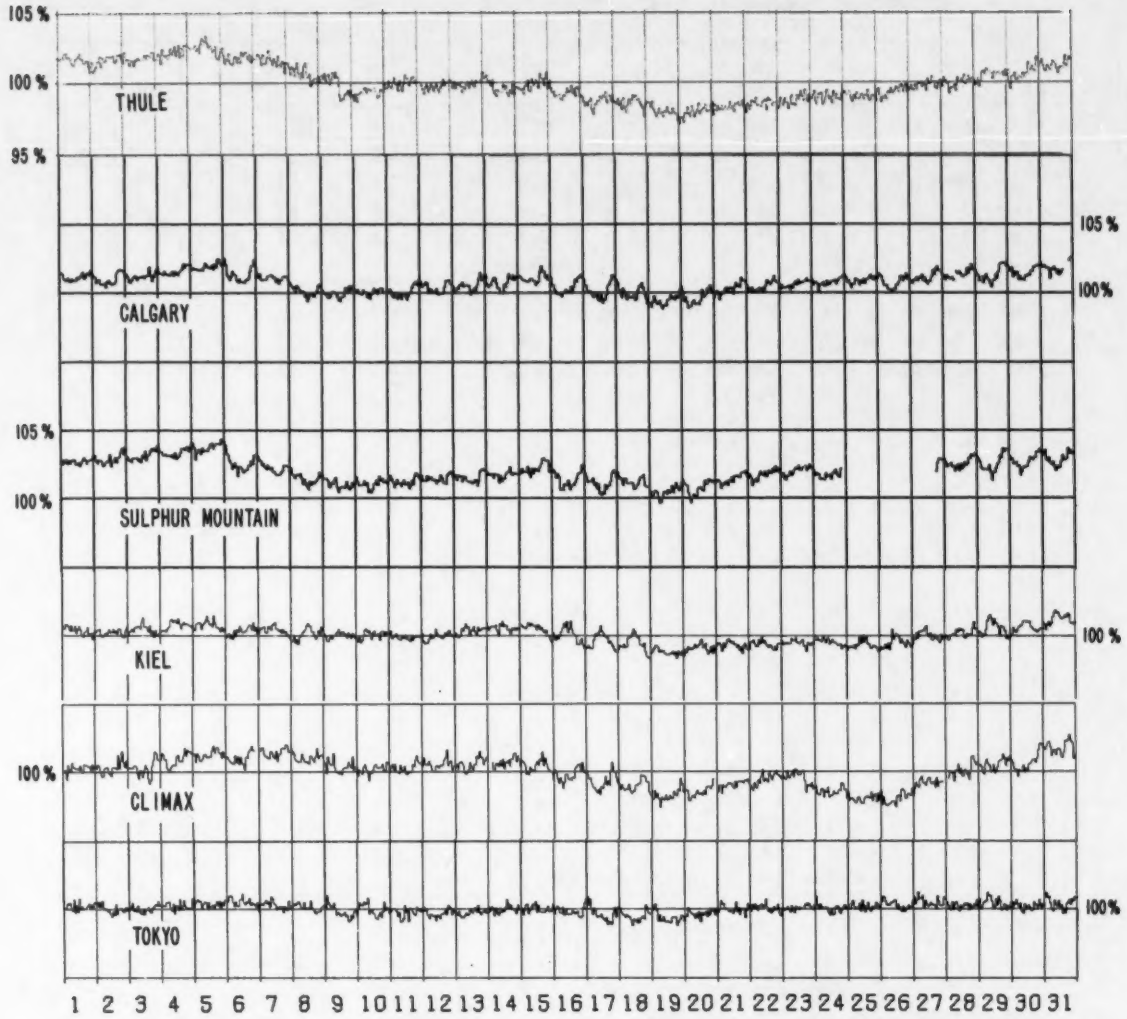
( ) Number of hours for which data are available if less than 24. Number of Section Hours at Climax if sum of both sections is less than 40 hours.

Thule, Alert, Calgary, Sulphur Mountain, Kiel and Climax Scaling Factors = 100.
Deep River Scaling Factor = 300.
Tokyo Scaling Factor = 128.

COSMIC RAY INDICES

(Neutron Monitors)

OCTOBER 1975

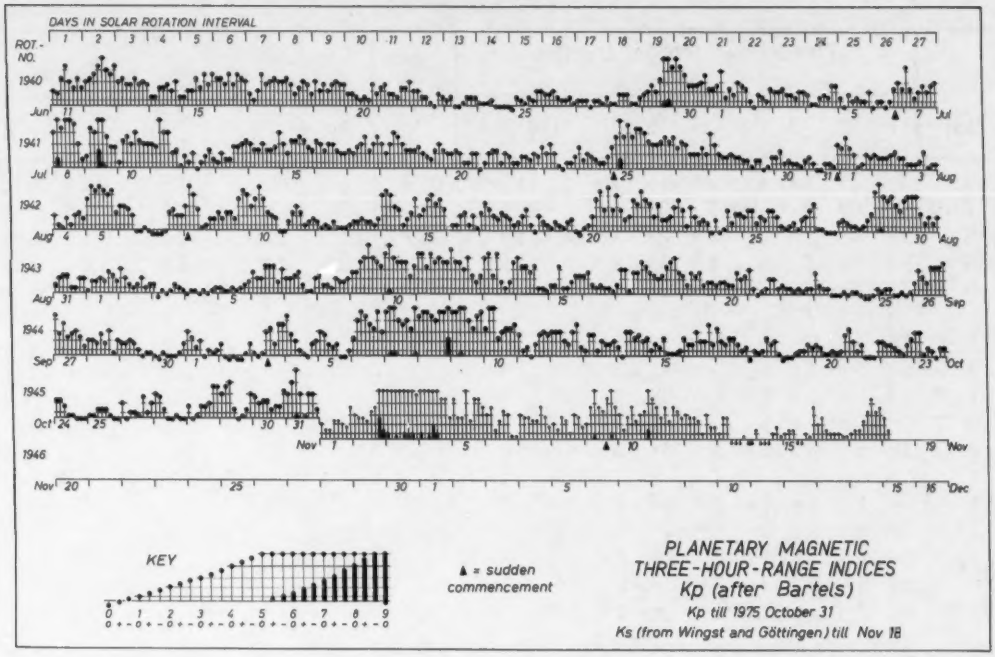


GEOMAGNETIC ACTIVITY INDICES

OCTOBER 1975

Day	Three-Hour Range Indices Kp								Sum	Cp	Ap	aa			
	1	2	3	4	5	6	7	8				N	S	M	
1	3	2+	1+	2	0+	1	1-	1	12-	0.3	6	15	12	19 8	KK
2QQ	2-	0+	0	0+	0	0	1-	2-	5-	0.0	2	6	4	5 5	CC
3	1-	0+	1-	3	3+	2-	4-	4-	17	0.7	11	22	17	11 29	
4	4+	3-	2	1	1-	0+	2-	2	15-	0.5	9	17	11	17 11	
5	3	3-	2-	1+	2-	0+	0+	1	12	0.3	6	11	10	14 8	C
6 D	2+	4	5-	4+	4-	3+	5-	3	30	1.2	25	35	42	36 42	
7 D	5-	5+	5+	4	4-	4	3+	5+	36-	1.4	38	67	46	55 58	
8 D	4+	5-	5-	4+	4	5-	5-	7-	38	1.5	45	62	62	51 73	
9 D	5-	5-	5+	5	4	3+	4+	5-	36	1.4	37	48	54	58 45	
10 D	3+	5	5	2+	3	3+	3+	4-	29	1.2	24	43	29	39 32	
11	3-	1	1+	0+	2-	3-	3	3-	15+	0.5	8	17	16	9 24	
12	3	3	3	2	2-	3	4-	1+	21-	0.7	12	23	18	19 23	
13	1	3-	3-	1	2	2-	2-	2	15-	0.4	7	16	12	11 17	
14	1+	0+	3	3	2+	3-	2	2+	17	0.5	9	16	38	27 27	
15QQ	1	2-	1+	2+	1-	1-	1-	1	9+	0.2	5	9	11	12 8	C
16	2+	2-	2-	3	2	2	4-	2-	18	0.5	10	20	26	23 23	
17	3+	2	2-	2+	2+	2-	1	1+	16-	0.4	8	16	15	19 12	
18 Q	0	1	1-	1	2+	2-	2	1-	9+	0.2	4	10	12	6 17	KC
19QQ	0	0+	0+	1-	1	1	2-	1+	6+	0.1	3	7	8	6 9	CC
20 Q	2-	1+	1-	1-	1	1-	1	3-	10-	0.2	5	10	8	7 11	CC
21 Q	3+	2	1	2-	0+	0+	0+	2	11	0.3	6	10	9	13 7	CC
22	2	2-	2-	1+	1	1-	2-	2+	12+	0.3	6	13	12	12 13	CC
23	3	3	1-	1+	1	0+	1+	1+	12	0.3	7	14	12	14 13	KC
24QQ	2+	2+	2-	1-	1-	0+	0+	0+	9-	0.2	4	9	8	12 5	CC
25QQ	1-	1-	1+	1+	1+	1-	0+	0+	7-	0.1	4	6	11	7 10	CC
26 Q	2	0+	1	1	1-	3-	1	2	11-	0.2	5	12	10	6 17	KK
27 Q	3	3-	1+	0+	0+	1-	0+	0+	9	0.2	5	9	10	12 7	CK
28	2-	0+	1-	2-	2-	2	4-	4-	15+	0.5	9	20	18	11 28	
29	3	4-	4	1+	0+	1-	1+	3	17+	0.7	12	24	13	24 14	
30	3-	2	2+	2+	1+	2-	2-	3+	17+	0.5	9	20	16	19 17	
31	3	4	5+	3	1-	3	3	1+	23+	1.0	19	28	33	40 22	
									MEAN	0.53	12	20.5	19.5	20.0	

GEOMAGNETIC ACTIVITY INDICES



DAILY AVERAGE INDICES Ap

DAY	1974 NOV	DEC	1975 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	6	6	7	37	21	7	6	24	12	9	7	6
2	5	15	4	23	10	5	16	28	6	7	6	2
3	6	15	7	12	11	6	19	12	7	5	3	11
4	3	9	32	10	9	7	14	11	6	6	3	9
5	5	7	27	17	36	10	34	12	5	29	4	6
6	10	4	26	8	20	15	35	11	6	7	13	25
7	7	8	44	15	3	25	22	6	12	5	7	38
8	21	13	36	8	2	32	14	4	37	14	6	45
9	39	42	7	11	8	52	16	5	35	15	24	37
10	10	20	6	38	80	35	19	4	17	15	26	24
11	48	21	4	36	53	34	2	14	18	7	26	8
12	70	18	4	35	37	27	3	27	5	4	19	12
13	36	22	32	27	29	29	6	14	10	5	17	7
14	38	13	33	25	29	21	14	8	13	16	13	9
15	10	14	15	21	20	7	3	13	15	18	8	5
16	16	8	21	30	27	6	28	17	12	5	6	10
17	14	18	29	14	13	5	14	12	14	9	13	8
18	8	28	22	15	17	6	7	12	15	6	14	4
19	14	27	10	11	11	5	15	12	9	4	8	3
20	22	21	10	8	14	25	23	6	6	15	7	5
21	24	19	6	8	3	23	12	9	6	17	6	6
22	18	14	8	7	6	15	11	5	6	12	4	6
23	16	17	12	32	13	25	8	4	6	10	4	7
24	26	14	10	17	14	17	5	3	6	6	2	4
25	19	12	5	20	8	8	14	4	33	9	3	4
26	17	12	5	9	17	9	18	5	19	5	14	5
27	9	21	14	5	34	5	10	4	11	6	14	5
28	6	12	12	12	38	3	5	4	10	5	8	9
29	3	11	6		22	2	11	26	4	27	5	12
30	2	6	7		10	6	6	22	5	14	2	9
31		14	16		13		4		5	6		19
MEAN	18	15	16	18	20	16	13	11	12	10	10	12

HOURLY EQUATORIAL Dst VALUES (PROVISIONAL)

OCTOBER 1975

NASA/GODDARD SPACE FLIGHT CENTER

(Time-UT) (Units-Gammas)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	17	13	3	0	0	0	0	0	2	-1	-2	0	0	-1	-1	-3	-4	-4	-1	0	1	-2	-4	-4
2	-3	-2	-1	-3	-2	0	2	2	5	5	4	4	2	1	2	4	6	8	8	9	7	6	7	8
3	8	8	8	7	7	8	12	18	21	19	12	15	8	5	2	1	1	1	-1	-10	-19	-18	-18	-25
4	-27	-25	-24	-24	-24	-24	-25	-23	-18	-15	-15	-13	-14	-16	-15	-16	-15	-14	-16	-14	-14	-20	-23	-19
5	-14	-7	-4	-9	-12	-12	-13	-15	-16	-20	-16	-12	-14	-16	-12	-10	-6	-6	-7	-6	-7	-7	-7	-3
6	0	-2	-3	-8	-12	-19	-26	-32	-42	-46	-49	-41	-27	-25	-27	-29	-31	-34	-36	-33	-31	-33	-30	-26
7	-23	-22	-32	-39	-35	-30	-27	-34	-45	-50	-37	-27	-33	-33	-37	-36	-29	-27	-34	-35	-36	-37	-28	-25
8	-31	-31	-38	-38	-37	-36	-34	-43	-48	-51	-47	-35	-37	-39	-42	-43	-40	-37	-44	-50	-43	-43	-44	-51
9	-38	-36	-35	-46	-47	-46	-53	-52	-39	-35	-30	-30	-34	-31	-28	-28	-32	-32	-32	-24	-26	-30	-31	-29
10	-33	-36	-40	-40	-46	-53	-44	-43	-34	-27	-25	-26	-29	-35	-33	-32	-33	-35	-40	-38	-37	-35	-33	-28
11	-29	-32	-31	-30	-29	-28	-27	-24	-21	-19	-18	-17	-19	-20	-16	-15	-19	-22	-26	-30	-30	-34	-32	-35
12	-33	-28	-32	-29	-28	-32	-34	-34	-31	-29	-26	-24	-22	-20	-20	-27	-31	-33	-39	-33	-30	-26	-26	-24
13	-21	-21	-22	-21	-23	-27	-28	-26	-20	-17	-15	-19	-18	-17	-17	-17	-18	-16	-17	-20	-22	-22	-22	-22
14	-23	-22	-18	-17	-17	-17	-17	-16	-19	-30	-29	-31	-27	-21	-19	-23	-27	-26	-25	-24	-20	-19	-16	-14
15	-14	-13	-13	-13	-12	-11	-10	-8	-6	-8	-9	-10	-5	-6	-8	-9	-9	-9	-9	-5	-3	-1	1	7
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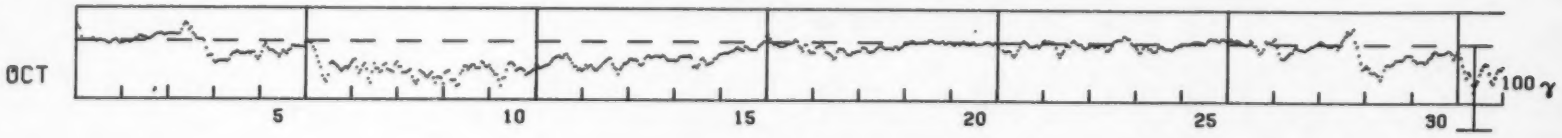
17	-13	-6	-5	-4	-3	-6	-12	-13	-14	-16	-20	-18	-11	-7	-8	-8	-11	-14	-15	-15	-12	-12	-11	-10
18	-10	-6	-6	-7	-11	-12	-11	-11	-8	-6	-4	-4	-6	-7	-7	-7	-7	-8	-5	-5	-8	-6	-5	-2
19	-2	-1	1	2	1	-1	0	0	0	1	1	0	3	3	2	0	1	0	1	2	-1	-1	1	1
20	-1	-3	0	0	-2	0	2	-1	-2	-2	-1	1	-2	-2	-1	-1	-1	1	1	1	0	-2	1	0
21	-6	0	-8	-10	-10	-9	-10	-14	-16	-13	-8	-4	1	3	1	-1	-4	-4	-4	-3	-2	-5	-2	2
22	4	1	3	2	2	1	-5	-12	-16	-12	-8	-3	-2	-3	2	4	2	0	-1	-1	-4	-6	-5	-4
23	-2	0	-4	-3	-4	-1	0	-3	-8	-8	-6	-2	3	4	5	5	5	9	9	6	6	1	-1	-3
24	-6	-10	-10	-5	-2	-2	-6	-6	-9	-9	-8	-4	-3	-3	-5	-6	-6	-6	-7	-6	-3	-3	-1	-2
25	0	1	0	0	1	2	3	3	3	2	2	0	1	4	6	6	5	6	4	3	6	6	5	3
26	5	6	4	3	5	4	2	1	0	-1	0	5	3	-2	-2	-6	-11	-9	-5	4	2	3	1	5
27	7	-3	-10	-16	-17	-17	-14	-12	-9	-9	-5	-3	-5	-6	-6	-7	-7	-5	-4	-2	-2	0	1	3
28	4	3	1	0	-2	-2	-2	0	1	-5	-1	4	7	11	16	13	15	19	4	-2	-12	-21	-29	-27
29	-24	-27	-32	-33	-32	-34	-36	-41	-36	-29	-24	-23	-24	-23	-21	-18	-18	-17	-18	-16	-13	-12	-12	-13
30	-17	-18	-21	-20	-19	-20	-22	-19	-16	-14	-10	-7	-8	-11	-10	-10	-10	-9	-7	-7	-10	-16	-12	-7
31	-9	-15	-24	-31	-39	-32	-35	-46	-56	-46	-42	-34	-28	-24	-22	-23	-33	-42	-45	-38	-32	-29	-28	-26



PRINCIPAL MAGNETIC STORMS

OCTOBER 1975

OBS. 2 letter IAGA code	GEOMAG-NETIC LATI-TUDE	COMMENCEMENT DAY	hr min (UT)	TYPE	SC - AMPLITUDES D(')	H(γ)	Z(γ)	MAXIMUM 3 HOUR - INDEX K DAY(3 HOUR PERIOD)	K	RANGES D(')	H(γ)	Z(γ)	UT END DAY	HOUR
HO	7.6N	3	0608	..	..	..	..	3(7,8)	3	4	100	27	04	06
NE	55.1N	3	0619	SC	0.5	1.0	..	4(1)	5	25	58	83	04	09
MB	21.3N	3	1114	SC*	+ 0.2	+17	..	3(7)	5	1	78	12	05	06
KG	56.5S	3	1116	SC	--	--	--	3(8)	4	--	--	--	04	06
AL	9.5N	6	05--	..	..	..	..	6(7) 7(5) 8(6,8) 9(2)	5	5	120	47	09	19
HO	7.6N	6	0500	..	..	..	..	6(4) 7(6) 8(6)	5	5	126	32	10	23
GU	4.0N	6	0508	..	..	..	..	7(4)	5	10	120	30	10	09
AN	1.5N	6	05--	..	..	..	..	--	-	3	172	72	09	19
CO	64.6N	6	05--	..	..	..	..	7(3) 8(4) 9(3,4)	7	215	1960	1010	11	02
SI	60.8N	6	05--	..	..	..	..	8(4)	-	70	--	730	10	10
NE	55.1N	6	05--	..	..	..	..	10(2)	6	44	125	230	11	04
WI	54.2N	6	11--	..	..	..	..	6(7) 7(8) 8(8)	6	38	215	60	10	10
TU	40.4N	6	05--	..	..	..	..	7(1,2,3,4,8)	5	16	120	30	10	12
GN	43.2S	6	04--	..	..	..	..	6(7) 7(4,5) 8(4,5,6,7,8) 9(3,4)	5	16	90	120	11	03
HR	33.7S	6	18--	..	..	..	..	6(7) 7(2) 8(8) 9(4)	6	20	105	102	10	09
PM	18.7S	6	04--	..	..	..	..	6(4) 7(3,4) 8(4) 9(3) 10(2)	5	6	110	50	11	00
HO	21.1N	6	05--	..	..	..	..	8(3)	5	6	71	21	--	--
MB	21.3N	6	00--	..	..	..	..	7(8)	5	3	59	18	11	00
TU	40.4N	6	05--	..	..	..	..	8(2,4,7,8) 9(2,3,4) 10(2,3)	5	16	120	30	10	12
KG	56.5S	6	05--	..	..	..	..	8(8)	7	--	--	--	11	02
HU	0.6S	6	0030	..	..	..	..	6(4,5)	5	7	238	38	07	24
TV	1.1S	6	05--	..	..	..	..	--	-	2	215	96	09	19
FR	49.6N	7	01--	..	..	..	..	8(8)	6	29	88	79	10	09
BO	48.9N	7	01--	..	..	..	..	10(3)	6	31	116	73	11	06
SJ	29.9N	7	0100	..	..	..	..	8(7)	5	8	77	26	08	04
TO	46.7S	8	04--	..	..	..	..	8(4,8) 9(3,4)	5	16	150	50	10	00
AL	9.5N	14	0634	SC	- 0.4	13	- 3	14(3,4,5,6,8)	3	4	76	29	15	06
HO	7.6N	14	0618	SC	- 0.4	+13	- 1	14(5) 16(7)	4	5	93	22	17	19
AN	1.5N	14	0634	SC	- 0.5	23	7	--	-	3	111	34	15	06
NE	55.1N	14	0619	..	..	..	..	14(3)	5	19	72	45	14	23
TV	1.1S	14	0634	SC	0.2	20	24	--	-	2	138	76	15	06
AL	9.5N	28	13--	..	..	..	..	28(7)	4	2	48	20	29	05
HO	7.6N	28	0500	..	..	..	..	28(7)	4	2	64	13	29	06
AN	1.5N	28	13--	..	..	..	..	--	-	1	61	19	29	05
NE	55.1N	28	1221	..	..	..	..	29(3) 31(3)	5	31	107	121	31	12
TV	1.1S	28	13--	..	..	..	..	--	-	1	62	55	29	05
PM	18.7S	31	04--	..	..	..	..	31(3)	5	4	110	30	01	00

Reports were received from the following observatories:

College Witteveen Tucson Honolulu Guam Huancayo Hermanus Toolangi
Sitka Fredericksburg San Juan Alibag Annamalainagar Trivandrum Port Moresby Gnangara Port-aux-Francais
Newport Boulder M'Bour Hyderabad

SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS

OCTOBER 1975

PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS (by Dr. A. Romana)

The meaning of the station symbols is given in the IAGA-Bulletins nr. 12 and 32. Times of ssc and si are mean values. If given by ten or more stations they are underlined.

Sudden commencements followed by a magnetic storm or a period of storminess (ssc)

03 1116 A: LG; B: WN DB IK PE LM CZ KG; C: NI EB TL SZ (si: A: NU; C: PP - sfe: SS)

Sudden impulses found in the magnetograms (si)

n o n e

Solar-flare effects (sfe)

Effects confirmed by ionospheric or solar observations are underlined.

04 1148 - 1157 SZ

04 1251 - 1303 SZ

10 1151 - 1156 SZ

28 1248 - 1302 SZ

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

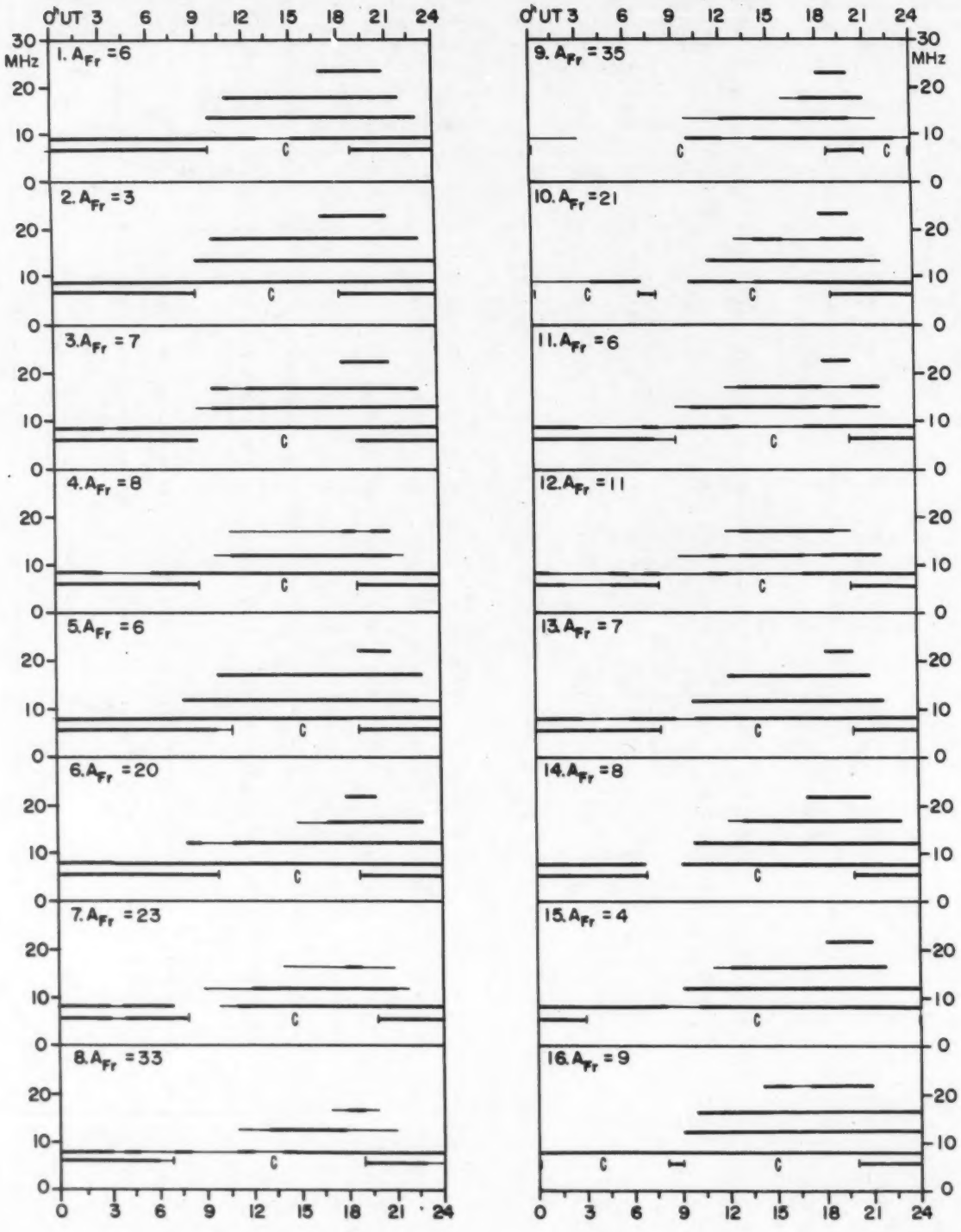
OCTOBER 1975

North Atlantic

OCT 1975	WHOLE DAY INDICES NORTH ATLANTIC	ADVANCE FORECASTS (JC-REPORTS) FOR WHOLE DAY	NORTH ATLANTIC								GEOMAGNETIC INDICES		
			6-HOURLY QUALITY FIGURES				SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE OF				K_{FR}		A_{FR}
			00 TO 06	06 TO 12	12 TO 18	18 TO 24	02	08	14	20	HALF DAY (1)	HALF DAY (2)	OBSERVED
01	6o	7	6-	5+	7o	6+	6	6	6	7	2	1	6
02	6o	6	6o	5o	6+	6+	7	6	6	7	1	1	3
03	6+	6	6+	6-	7-	6+	6	6	6	6	1	2	7
04	6o	6	6o	5+	6+	6o	5	5	5	5	3	1	8
05	6o	6	5+	6-	7-	6+	6	6	6	6	2	1	6
06	6o	5	6-	6+	6o	6-	6	6	6	5	(4)	3	20
07	5+	5	5+	5+	5+	6-	5	4	5	5	(4)	3	23
08	5o	5	5+	5-	5o	4+	5	4	4	5	(4)	(4)	33
09	5-	5	4+	4+	5o	5-	4	4	5	5	(5)	(4)	35
10	5o	5	5+	4+	6-	5o	4	4	5	5	(4)	3	21
11	6-	5	6-	5+	6-	6-	5	5	6	6	1	2	6
12	5+	6	5o	6-	5+	5o	5	5	5	5	3	2	11
13	5+	6	5o	6-	5+	5+	5	5	5	5	2	2	7
14	6o	6	6-	6-	6o	6o	5	5	5	6	2	2	8
15	6-	6	6-	6-	6o	6o	6	6	5	6	2	1	4
16	6o	6	6o	6+	6o	6+	6	5	5	6	2	2	9
17	6o	6	6o	6o	6o	6+	6	6	5	6	2	1	6
18	6o	6	6o	6o	6o	6+	5	5	6	6	1	2	3
19	6+	6	7-	6o	6o	6+	5	5	6	6	0	1	2
20	6o	7	6o	6-	7-	6+	6	6	6	7	1	1	3
21	6o	7	6o	6-	6o	6+	6	6	6	6	2	1	5
22	6o	7	6o	5+	6o	6+	5	5	5	6	2	1	5
23	6o	5	6-	5o	6+	6+	6	6	6	5	2	1	6
24	6+	5	6o	7-	6+	6+	5	5	6	6	2	0	3
25	6+	5	6o	6o	6+	7-	6	6	6	6	1	1	2
26	6+	6	6o	6-	7-	7o	5	5	5	5	1	1	4
27	6+	6	6+	6o	6+	7-	5	5	5	5	2	0	4
28	7-	6	6+	6+	7-	7-	6	6	6	7	1	2	6
29	6+	6	7-	6+	6+	7-	6	5	5	6	3	1	11
30	6+	6	6+	6-	7-	7-	6	5	5	6	3	2	9
31	6o	6	6+	6o	6o	6o	6	5	5	6	3	1	10

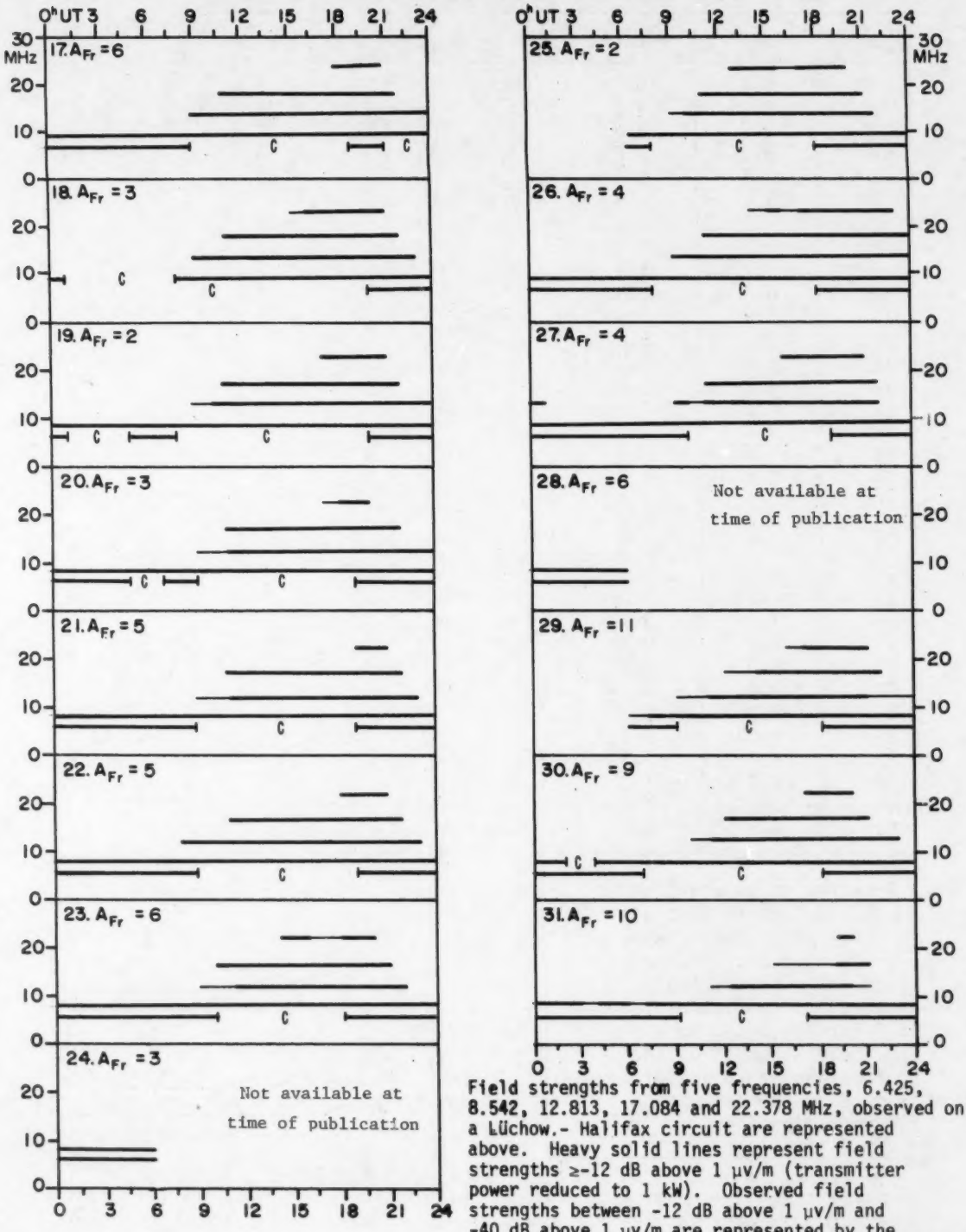
TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

OCTOBER 1975



TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

OCTOBER 1975


0h UT 3 6 9 12 15 18 21 24
MHz
17. AFr = 6
18. AFr = 3
19. AFr = 2
20. AFr = 3
21. AFr = 5
22. AFr = 5
23. AFr = 6
24. AFr = 3
Not available at time of publication
25. AFr = 2
26. AFr = 4
27. AFr = 4
28. AFr = 6
Not available at time of publication
29. AFr = 11
30. AFr = 9
31. AFr = 10
C
0 3 6 9 12 15 18 21 24

Field strengths from five frequencies, 6.425, 8.542, 12.813, 17.084 and 22.378 MHz, observed on a Lüchow.- Halifax circuit are represented above. Heavy solid lines represent field strengths ≥-12 dB above 1 μv/m (transmitter power reduced to 1 kW). Observed field strengths between -12 dB above 1 μv/m and -40 dB above 1 μv/m are represented by the fine line. Adopted from Observations by Deutsche Bundespost

USCOMM - ESL

RADIO PROPAGATION QUALITY INDICES

OCTOBER 1975

Quality Indices calculated for reception at Lüchow

	TOKYO	HALIFAX	MAURITIUS	CANBERRA	BRACKNELL
1	8.4	9.3	8.1	5.4	14.4
2	9.1	9.6	7.7	5.2	14.1
3	9.0	8.5	7.2	4.9	14.4
4	8.8	7.6	7.7	5.1	14.0
5	8.7	8.4	7.9	5.3	14.0
6	10.4	7.3	8.3	5.3	14.2
7	7.2	6.1	7.8	5.0	13.6
8	6.2	5.1	7.7	5.0	13.6
9	5.7	5.3	8.0	4.9	13.0
10	6.2	5.8	8.8	4.6	13.1
11	6.6	5.9	8.4	4.5	13.1
12	7.2	5.8	8.2	4.6	13.4
13	6.4	7.3	8.4	5.1	13.7
14	6.2	7.0	9.1	5.7	13.8
15	6.7	7.7	9.8	5.4	14.2
16	7.7	9.1	9.0	5.4	14.6
17	7.3	8.9	9.4	5.4	14.4
18	6.9	9.3	10.4	5.7	14.5
19	7.2	8.9	10.0	5.2	14.8
20	7.4	9.4	10.1	5.0	14.4
21	7.2	9.3	9.6	5.7	14.6
22	7.6	9.0	9.3	5.6	15.0
23	7.8	9.5	9.2	5.8	14.9
24	7.7	9.1	9.2	5.5	13.8
25	7.4	9.2	9.6	5.8	14.2
26	8.6	8.7	9.6	6.3	14.6
27	8.4	9.4	9.2	6.4	14.9
28	8.0	9.2	9.1	6.1	15.1
29	7.0	8.1	8.7	6.0	14.2
30	6.7	8.3	8.8	5.5	13.9
31	6.1	7.2	9.3	5.2	14.2
MEAN	7.5	8.0	8.8	5.4	14.2

The method of calculation of the radio propagation indices changed in July 1974. An absolute quality figure is calculated for a 24-hour period from Tokyo, Halifax, Mauritius (Africa) and Canberra. The figure 0.0 corresponds to a median field strength of -30 dB above 1μV/m (converted into 1 kW and referred to an omnidirectional antenna). The figures 1 to 10 are in steps of 5 dB with the figure 10.0 corresponding to a median field strength of +20 dB above 1μV/m. The field strength of the frequency with the highest value for each hour is used in place of a mean of all recorded frequencies. This is done on the assumption that the optimum frequency would be used for communication.

USCOMM-NOAA-ASHEVILLE,NC-12-31-75-950

AMERICAN REVOLUTION BICENTENNIAL
1776-1976

December 1975 Number 376-Part II

Solar-Geophysical Data comprehensive reports

Data for June 1975–May 1975 & Miscellanea

Explanation of Data Reports Issued as Number 366 (Supplement) February 1975

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / ASHEVILLE, N.C.

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Solar - Geophysical Data

NO. 376 DECEMBER 1975

Part II (Comprehensive Reports)

DATA FOR
JUNE 1975
MAY 1975
& MISCELLANEA

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

For obtaining bulletins on a data exchange basis, send request to: World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, Colorado 80302.

For sale through the National Climatic Center, Federal Building, Asheville, NC 28801, Attn: Publications. Subscription Price: $34.00 annually for both Part I (Prompt Reports) and Part II (Comprehensive Reports) or $18.00 annually for either part. Annual supplement containing explanation is included. For foreign mailing add $23.00 for both parts or $11.50 for either part. Single issue price $1.40 for either part and $1.30 for this extra issue. Make checks and money orders payable to: Department of Commerce, NOAA.

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Solar-Geophysical Data, 366 Part I (or Part II), pages, February 1975, U.S. Department of Commerce, (Boulder, Colorado, U.S.A. 80302)

SOLAR - GEOPHYSICAL DATA

No. 376

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

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A.2c	American Relative Sunspot Numbers R_A	361A 7	362A 7	363A 7	364A 7	365A 7	366A 7	367A 7	368A 7	369A 7	370A 7	371A 7	372A 7	373A 7	374A 7	375A 7	376A 7
A.3a	Mt. Wilson Magnetograms	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	369A 26	370A 24	371A 24	372A 28	373A 34	374A 28	375A 24	376A 28	
A.3b	Mt. Wilson Magnetic Characteristics of Sunspots	362A 94	363A 88	364A 94	365A 86	366A 86	367A 86	368A 82	369A 88	370A 84	371A 86	372A 88	373A 96	374A 90	375A 84	376A 90	
A.3c	Kitt Peak Magnetograms	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	369A 26	370A 24	371A 24	372A 28	373A 34	374A 28	375A 24	376A 28	
A.4	Hα Spectroheliograms	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	369A 26	370A 24	371A 24	372A 28	373A 34	374A 28	375A 24	376A 28	
A.5	Calcium Plage Drawings - McMath (or Catania)	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	369A 26	370A 24	371A 24	372A 28	373A 34	374A 28	375A 24	376A 28	
A.5a	Calcium Plage (McMath) and Sunspot Regions	362A 94	363A 88	364A 94	365A 86	366A 86	367A 86	368A 82	369A 88	370A 84	371A 86	372A 88	373A 96	374A 90	375A 84	376A 90	
A.5b	McMath Daily Calcium Plage Index	362A102	363A 97	364A101	365A 92	366A 92	367A 93	368A 89	369A 93	370A 91	371A 92	372A 93	373A101	374A 95	375A 90	376A 96	
A.6	Hα Synoptic Charts	362A 31	363A 27	364A 31	365A 24	366A 23	367A 23	368A 25	369A 25	370A 23	371A 23	372A 27	373A 33	374A 26	375A 23	376A 27	
A.7b	Coronal Line Emission	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	369A 26	370A 24	371A 24	372A 28	373A 34	374A 28	375A 24	376A 28	
A.8aa	2800 MHz - Daily Values of Solar Flux (ARO-Ottawa)	361A 7	362A 7	363A 7	364A 7	365A 7	366A 7	367A 7	368A 7	369A 7	370A 7	371A 7	372A 7	373A 7	374A 7	375A 7	376A 7
A.8ac	2800 MHz - Daily Values of Adj. Solar Flux (ARO-Ottawa)	361A 7	362A 7	363A 7	364A 7	365A 7	366A 7	367A 7	368A 7	369A 7	370A 7	371A 7	372A 7	373A 7	374A 7	375A 7	376A 7
A.8g	Daily Values of Adjusted Solar Flux (AFCRL)	361A 7	362A 7	363A 7	364A 7	365A 7	366A 7	367A 7	368A 7	369A 7	370A 7	371A 7	372A 7	373A 7	374A 7	375A 7	376A 7
A.9cb	8.6 mm Radio Maps of the Sun (NELC - La Posta)	---	---	---	365A 26	366A 24	367A 24	368A 26	369A 26	370A 24	371A 24	372A 28	373A 34	374A 28	375A 24	376A 28	
A.9d	2 cm Radio Maps of the Sun (NELC - La Posta)	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	369A 26	370A 24	371A 24	372A 28	373A 34	374A 28	375A 24	376A 28	
A.10a	169 MHz - Interferometric Observations (Nançay)	361A 13	362A 14	364A110	364A 13	365A 12	366A 12	367A 12	369A101	369A 12	370A 12	371A 12	372A 15	373A 15	374A 12	375A 12	376A 14
A.10c	21 cm East-West Solar Scans (Fleurs)	361A 15	362A 16	363A 15	364A 15	365A 14	366A 14	367A 14	368A 14	369A 14	371A100	371A 14	372A 17	373A 17	374A 14	375A 14	376A 16
A.10d	43 cm East-West Solar Scans (Fleurs)	361A 16	362A 17	363A 16	364A 18	365A 15	366A 15	367A 15	368A 15	369A 15	371A101	371A 15	372A 18	373A 18	374A 15	375A 15	376A 17
A.10e	10.7 cm East-West Solar Scans (Ottawa-ARO)	361A 14	362A 15	363A 14	364A 14	365A 13	366A 13	367A 13	368A 13	369A 13	370A 13	371A 13	372A 16	373A 16	374A 13	375A 13	376A 15
A.11e	Solar X-ray Spectroheliograms (OSO-5; 1969-6A)	362A 32	363A 28	364A 32	365A 26	367B 55	368B 58	369B 36	369A 26	371B 24	371A 24	373A 34	---	---	---	---	
A.11g	Solar X-ray (SMS GOES)	---	---	---	364A 21	365A 18	366A 18	367A 18	368A 18	369A 20	370A 18	---	---	373A 25	374A 20	375A 18	376A 21
A.11h	Solar X-ray (OSO-8; 1975-057A)	---	---	---	---	---	---	---	---	---	---	---	---	374A 28	375A 24	376A 28	
A.12ba	Cosmic Ray Protons (Pioneers 6 & 7)	361A 18	---	---	---	365A 17	---	---	---	---	369A 18	370A 16	371A 18	---	374A 18	---	---
A.12bb	Cosmic Ray Protons (Pioneers 8 & 9)	361A 19	362A 22	---	364A 19	---	---	---	---	---	369A 19	370A 17	371A 19	---	374A 19	---	---
A.12d	Solar Protons (NOAA 2, 3 & 4) Graphs	361A 20	362A 23	363A 22	364A 24	---	---	---	---	---	---	---	---	---	---	---	---
A.13a	Solar Wind (Pioneers 6 & 7)	361A 18	---	---	---	365A 17	---	---	---	---	369A 18	370A 16	371A 18	---	374A 18	---	---
A.13d	Solar Wind from IPS Measurements	---	---	---	---	---	366A 17	367A 17	368A 17	369A 17	370A 15	371A 17	372A 21	373A 24	374A 17	375A 17	376A 20
A.17	Interplanetary Magnetic Field (Pioneer 8)	361A 19	362A 22	---	---	---	---	---	---	369A 19	370A 17	371A 19	---	---	374A 19	---	---
A.17	Interplanetary Magnetic Field (Pioneer 9)	361A 19	---	363A 21	364A 19	---	---	---	---	369A 19	---	371A 19	372A 22	---	374A 19	---	---
A.17c	Inferred IP Magnetic Field	361A 23	362A 26	363A 24	364A 27	365A 21	366A 20	367A 20	368A 21	369A 22	370A 20	371A 20	372A 24	373A 29	374A 23	375A 20	376A 24
A.18	Interplanetary Electric Field (Pioneer 8)	361A 19	362A 22	---	---	---	---	---	---	369A 18	370A 17	371A 19	---	---	374A 19	---	---
A.18	Interplanetary Electric Field (Pioneer 9)	361A 19	---	363A 21	364A 19	---	---	---	---	369A 19	---	371A 19	372A 24	---	374A 19	---	---
B.	Ionospheric (and Radio Wave Propagation) Phenomena																
B.51ca	High Latitude Quality Figures and Forecasts	362A119	363A123	364A119	365A109	366A111	367A111	368A103	369A109	370A105	371A108	372A109	373A119	374A115	375A103	376A113	
B.52	Graphs of Transmission Frequency Range	362A120	363A124	364A120	365A110	366A112	367A112	368A104	369A110	370A106	371A109	372A110	373A120	374A116	375A104	376A114	
B.53	Quality Figures Based on Frequency Ranges	362A122	363A126	364A122	365A112	366A114	367A114	368A106	369A112	370A108	371A111	372A112	373A122	374A118	375A106	376A116	
C.	Flare-Associated Events																
C.1a	Optical Observations Flares	361A 10	362A 10	363A 10	364A 10	365A 10	366A 10	367A 10	368A 10	369A 10	370A 10	371A 10	372A 10	373A 10	374A 10	375A 10	376A 10
C.1ba	Optical Observations Flares (Standardized Data)	366B 4	367B 4	368B 4	369B 4	370B 4	375B 26	375B 30	375B 35	375B 33	375B 6	376B 4					
C.1d	Flare Patrol Observations	361A 12	362A 13	363A 13	364A 12	365A 11	366A 11	367A 11	368A 11	369A 11	370A 11	371A 11	372A 14	373A 14	374A 11	375A 11	376A 13
C.1d	Flare Patrol Observations	366B 14	367B 20	368B 24	369B 14	370B 11	371B 6	372B 6	373B 6	374B 5	375B 10	376B 9					
C.1e	Flare Indices (by day)	366B 13	367B 16	368B 20	369B 11	370B 8	371B 5	372B 5	375B 41	375B 41	375B 9	376B 8					
C.1f	Flare Indices (by Region)	367B 52	368B 56	369B 34	370B 26	371B 22	372B 20	375B 41	375B 41	375B 24	376B 22						
C.3	Solar Radio Waves - Outstanding Occurrences	366B 15	367B 21	368B 25	369B 15	370B 12	371B 7	372B 7	373B 7	374B 6	375B 11	376B 10					
	Solar Radio Waves - Fixed Frequencies - Selected	361A 17	362A 18	363A 17	364A 17	365A 16	366A 16	367A 16	368A 16	369A 16	370A 14	371A 16	372A 19	373A 19	374A 16	375A 16	376A 18
C.3t	43.25, 80 and 160 MHz Selected Bursts (Culgoora)	362A111	363A115	365B106	365A101	366A100	367A103	368A 95	369A100	370A 97	371A 99	372A101	363A111	374A107	376B 26	376A105	
C.4a	Solar Radio Spectral Obs. (Fort Davis)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	373A103	374A 99	375A 92	376A 98	
C.4b	Solar Radio Spectral Obs. (Boulder)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	373A103	374A 99	375A 92	376A 98	
C.4d	Solar Radio Spectral Obs. (Culgoora)	362A104	363A101	365B103	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	374B 19		376B 24	376A 98	
C.4e	Solar Radio Spectral Obs. (Weissenau)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	373A103	374A 99	375A 92	376A 98	
C.4f	Solar Radio Spectral Obs. (Sagamore Hill)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	373A103	374A 99	375A 92	376A 98	
C.4h	Solar Radio Spectral Obs. (Dwingeloo)	362A104			365A 94	366A 94	367A 96	368A 91	369A 95	---	---	372A 95	373A103	---	---	376A 98	
C.4i	Solar Radio Spectral Obs. (Dürnten)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	373A103	374A 99	375A 92	376A 98	
C.4j	Solar Radio Spectral Obs. (Manila)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	373A103	374A 99	375A 92	376A 98	
C.5e	Solar X-ray (SMS GOES)				364A 23	365A 20	366A 18	367A 18	368A 18	369A 20	370A 18	---	372A 23	373A 27	374A 22	375A 18	376A 23
C.6	Sudden Ionospheric Disturbances	362A103	363A 99	364A102	365A 93	366A 93	367A 95	368A 90	369A 94	370A 92	371A 93	372A 94	373A102	374A 96	375A 91	376A 97	
D.	Geomagnetic and Magnetospheric Phenomena																
D.1a	Geomagnetic Indices Ci, Cp, Kp, Ap, aa - Selected Days	362A114	363A118	364A113	365A104	366A103	367A106	368A 98	369A104	370A100	371A104	372A104	373A114	374A110	374A 98	376A108	
D.1ba	27-Day Chart of Kp Indices	362A115	363A119	364A114	365A105	366A105	367A107	368A 99	369A105	370A101	371A105	372A105	373A115	374A111	374A 99	376A109	
D.1c	27-Day Chart of C9	366A107	366A107	366A107	366A107	366A107											
D.1d	Principal Magnetic Storms	362A117	363A121	364A116	365A107	366A109	367A109	368A101	369A107	370A103	371A106	372A107	373A117	374A113	374A101	376A111	
D.1e	Reduced Magnetograms	---	367B 40	368B 44	---	---	---	---	373B 10	---	---	---					
D.1f	Sudden Commencement and Solar Flare Effects	362A118	363A122	364A118	365A108	366A110	367A110	368A102	369A108	370A104	371A107	372A108	373A118	374A114	374A102	376A112	
D.1g	Equatorial Indices Dst	362A116	363A120	364A115	365A106	366A108	367A108	368A100	369A106	370A102	372B 14	372A106	373A116	374A112	374A100	376A110	
F.	Cosmic Rays																
F.1a	Cosmic Ray Neutron Counts (Deep River)	362A112	364B 42	364A111	365A102	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	374A108	375A 96		
F.1b	Cosmic Ray Neutron Counts (Climax)					366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	374A108	375A 96	376A106	
F.1e	Cosmic Ray Neutron Counts (Alert)	362A112	364B 42	364A111	365A102	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	374A108	375A 96		
F.1f	Cosmic Ray Neutron Counts (Calgary)	362A112	363A116	364A111	366B 32	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	374B 22	374A108	375A 96	376A106	
F.1g	Cosmic Ray Neutron Counts (Sulphur Mountain)	362A112	363A116	364A111	366B 32	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	374B 22	374A108	375A 96	376A106	
F.1h	Cosmic Ray Neutron Counts (Thule)	363B 47	363A116	364A111	365A102	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	374A108	375A 96	376A106	
F.1i	Cosmic Ray Neutron Counts (Kiel)	362A112	363A116	364A111	365A102	366A101	367A104	368A 96	370A102	370A 98	371A102	372A102	373A112	374A108	375A 96	376A106	
F.1j	Cosmic Ray Neutron Counts (Tokyo)	362A112	363A116	364A111	365A102	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	374A108	375A 96	376A106	
H.	Miscellaneous																
H.60	IUWDS Alert Decisions	361A 4	362A 4	363A 4	364A 4	365A 4	366A 4	367A 5	368A 4	369A 5	370A 5	371A 5	372A 4	373A 4	374A 4	375A 5	376A 5
H.62	Abbreviated Calendar Record	367B 44	368B 48	369B 24	370B 17	371B 13	372B 11	373B 15	374B 8	375B 16	376B 14						

Note: A = Part I, B = Part II.

362A 32 listed under 1974 Aug shows that data for August 1974 were contained in *Solar-Geophysical Data* Number 362 - Part I beginning on page 32.

SGD 376 Part II (Comprehensive)

JUNE 1975 DATA

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Hα SOLAR FLARES

JUNE 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 JUN	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		CONG	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg	
	01	0037	0155	NO FLARE PATROL													
	01	1932	2011	NO FLARE PATROL													
	01	2020	2115	NO FLARE PATROL													
	01	2122	2138	NO FLARE PATROL													
	01	2258	2306	NO FLARE PATROL													
	02	2255	2303	NO FLARE PATROL													
198 ATHN	03	1001	1003	1005	N11	E00	.199	13703	3.4	4	-N	5	C		16		DE
	03	1907	1909	NO FLARE PATROL													
	03	1928	1936	NO FLARE PATROL													
	03	1945	2001	NO FLARE PATROL													
	04	0002	0155	NO FLARE PATROL													
GRP62199	04	1023+5	1028+5	1038	S10	E25	.449	13692	6.3	15	-F				60	.7	GJ
KHAR	04	0922	0922	1035	S07	E24	.428	13692	6.2	73	1F		C	0922	330	3.8	BE
RAMY	04	1023	1028	1042	S09	E25	.444	13692	6.3	19	-F	4	C		45		DE
ATHN	04	1028	1031	1036	S11	E26	.469	13692	6.4	8	-F	3	V		48		F
ATHN	04	1028	1031	1036	S11	E26	.469	13692	6.4	8	-F	3	C		48		F
ABST	04	1030E	1033	1044D	S11	E25	.455	13692	6.3	14D	-F		P	1033	87	1.0	DGJ
GRP62208	04	1700+3	1702+5	1714	S08	E20	.364	13692	6.2	14	-F				48	.4	F
BOUL	04	1700	1703	1708	S08	E21	.379	13692	6.3	8	-F	3	C	1703	32	.3	
RAMY	04	1700	1702	1719	S08	E18	.334	13692	6.1	19	-F	3	C		36		F
HTPR	04	1703	1703	1720	S07	E22	.390	13692	6.4	17	-F		C	1703	20	.2	
ATHN	04	1706E	1707U	1711	S09	E20	.370	13692	6.2	5D	-F	2	C		64		F
ATHN	04	1706E	1707U	1711	S09	E20	.370	13692	6.2	5D	-F	2	V		64		F
201 CULG	05	0309E	0312	0320D	S08	E06	.171	13692	5.6	11D	-F		C	0312	20	.2	
	06	0001	0012	NO FLARE PATROL													
	06	0045	0103	NO FLARE PATROL													
202 HTPR	06	0518	0519	0540	S10	E01	.173	13692	6.3	22	-F		C	0519	10	.1	D
203 HTPR	06	0920	0924	0930	S07	W03	.131	13692	6.2	10	-F		C	0924	20	.2	
GRP62204	06	1207+5	1214+2	1228	S07	W04	.139	13692	6.2	21	-F				40	.4	E
HTPR	06	1207	1214	1250	S07	W04	.139	13692	6.2	43	-F		C	1214	28	.2	E
MONT	06	1210	1216	1228	S08	W04	.154	13692	6.2	18	-F		C	1216	40		E
MEUD	06	1212	1215	1225	S07	W04	.139	13692	6.2	13	-F		C	1215	50	.5	E
	07	2202	2213	NO FLARE PATROL													
	07	2245	2255	NO FLARE PATROL													
	07	2325	2343	NO FLARE PATROL													
	10	0021	0028	NO FLARE PATROL													
	10	0030	0039	NO FLARE PATROL													
	10	2001	2010	NO FLARE PATROL													
	10	2020	2036	NO FLARE PATROL													
GRP62205	11	0633+0	0635+5	0642	S19	E32	.602	13729	13.7	9	-F				30	.4	
ATHN	11	0633	0635	0642	S21	E31	.604	13729	13.6	9	-F	4	V		32		
ATHN	11	0633	0635	0642	S21	E31	.604	13729	13.6	9	-F	4	C		32		
CATA	11	0635E	0640	0650D	S14	E35	.610	13729	13.9	15D	-F			0640	28	.4	
GRP62206	11	1156+0	1158+0	1201	S15	E31	.564	13729	13.8	5	-F				20	.2	F
ATHN	11	1156	1158	1201	S15	E31	.564	13729	13.8	5	-F	3	V		16		F
ATHN	11	1156	1158	1201	S15	E31	.564	13729	13.8	5	-F	3	C		16		F
	11	1944	1950	NO FLARE PATROL													
	11	2013	2034	NO FLARE PATROL													
	12	1957	2008	NO FLARE PATROL													
	12	2038	2046	NO FLARE PATROL													
	12	2103	2143	NO FLARE PATROL													
	12	2256	2307	NO FLARE PATROL													
	14	0039	0149	NO FLARE PATROL													
	14	1809	1843	NO FLARE PATROL													
	14	1854	1908	NO FLARE PATROL													
	14	2019	2038	NO FLARE PATROL													
	14	2105	2144	NO FLARE PATROL													
	14	2332	2351	NO FLARE PATROL													
207 CATA	15	1015E	1025	1035D	N06	W28	.475	13722	13.3	20D	-F			1025	28	.3	
208 CATA	15	1215	1225	1250D	N07	W31	.522	13722	13.2	35D	-F			1225	56	.7	
209 CATA	15	1305E	1305	1315D	N07	W31	.522	13722	13.2	10D	-F			1315	56	.7	

Hα SOLAR FLARES

JUNE 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 JUN	START	MAX. PHASE	END	APPROX LAT.	APPROX HER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY	MIN.		CONG	TYPE	TIME UT	MEAS. AREA Mill. of Dnh	CORR AREA Sq. Deg.	
218 CATA	15	1325E	1335	1430D	N07	W32	.537	13722	13.2	65D	-F			1335	28	.3	
	15	1810	1830	NO FLARE PATROL													
	15	1834	1859	NO FLARE PATROL													
	15	2016	2052	NO FLARE PATROL													
211 TACH	16	0257E		0307	N05	W42	.671	13722	13.0	10D	-B		C	0257	88	1.2	D
212 CATA	16	0725	0725	0730	N05	W42	.671	13722	13.2	5	-N			0725	56	.8	
GRP62213	16	0800>9	0815	0820	N05	W43	.683	13722	13.1	20	-F				80	1.1	D
KHAR	16	0800	0820	0820	N06	W43	.684	13722	13.1	20	-F		P	0820	110	1.5	D
CATA	16	0810	0815	0820	N05	W43	.683	13722	13.1	10	-N			0815	56	.8	
214 HURB	16	1157E		1201D	N09	W42	.676	13722	13.3	4D	-B						T
215 KHAR	16	1245	1245	1350	N06	W45	.709	13722	13.2	65	-F		P	1245	110	1.5	D
216 HUAN	16	1410E		1421	N05	W47	.732	13722	13.1	11D	-F	1	P	1414	30	.4	
217 HUAN	16	1535		1542	N05	W47	.732	13722	13.1	7	-F	1	C	1537	35	.5	
218 HUAN	16	1741		1748	N05	W48	.744	13722	13.1	7	-F	1	C				
	16	1941	1953	NO FLARE PATROL													
	16	2004	2022	NO FLARE PATROL													
219 CULG	16	2228E	2235	2242D	N05	W48	.744	13722	13.3	14D	-F		C	2235	100	1.5	
	16	2306	2319	NO FLARE PATROL													
220 KHAR	17	0910	0910	1010	N06	W57	.839	13722	13.1	60	? F		P	0910	110	2.2	DT
	IMP>1	NO	ABST1														
	18	1941	1946	NO FLARE PATROL													
	18	2149	2150	NO FLARE PATROL													
	19	0024	0035	NO FLARE PATROL													
221 CATA	19	0620E	0635	0700D	N05	W84	.994	13722	13.0	40D	? F			0635	56		
	IMP>1	NO	ABST1	KIEV1													
222 CATA	19	1035E	1105	1115	S08	W73	.958	13729	14.0	40D	-F			1105	56		
223 KHAR	19	1140	1150	1200	N09	W75	.966	13722	13.9	20	2F		C				
GRP62224	19	1215E	1238	1412	S09	W73	.959	13729	14.0	117	1B						E
HURB	19	1215E	1238	1413D	S09	W70	.943	13729	14.3	118D	1B						
KHAR	19	1240	1240	1410	S09	W75	.968	13729	13.9	90	2N		C				E
CATA	19	1250	1250	1250	S10	W74	.964	13729	14.0		1F			1250	84		
	19	1927	1945	NO FLARE PATROL													
	19	1949	2003	NO FLARE PATROL													
	19	2046	2250	NO FLARE PATROL													
	19	2354	0308	NO FLARE PATROL													
GRP62225	20	1049	1051+4	1120D	S12	W90	1.000	13729	13.7	31	-F						D
MONT	20	1049	1051	1057D	S13	W90	1.000	13729	13.7	8D	-F		C	1051	20		D
CATA	20	1050E	1055	1120D	S11	W90	1.000	13729	13.7	30D	1F			1055	56		
GRP62226	20	1424>9	1435+1	1502	S11	W90	1.000	13729	13.8	38	-N				58		
HTPR	20	1424	1436	1500	S11	W90	1.000	13729	13.9	36	-N		C	1436	30		
CATA	20	1425	1435	1510	S08	W90	1.000	13729	13.9	45	1N			1435	84		
BOUL	20	1432	1435	1503	S12	W90	1.000	13729	13.9	31	1N	3	C	1435	64	2.6	
HUAN	20	1435	1436	1447	S12	W90	1.000	13729	13.9	12	-F	1	C	1436	35		
GRP62227	20	1525+5	1533+2	1620	S11	W90	1.000	13729	13.9	55	-N				40		
			1610														
CATA	20	1525	1610	1630	S10	W90	1.000	13729	13.9	65	2N			1610	81		
MCNA	20	1527	1534	1545D	S12	W90	1.000	13729	13.9	18D	-F		C	1534			
BOUL	20	1528	1535	1550	S12	W90	1.000	13729	13.9	22	-N	3	C	1535	43	1.7	
HUAN	20	1530	1533	1539	S12	W90	1.000	13729	13.9	9	-F	1	C	1533	30		
HUAN	20	1557		1611	S12	W90	1.000	13729	13.9	14	-F	1	C				
GRP62228	20	1725+8	1732	1746	S12	W90	1.000	13729	14.0	21	-N						
BOUL	20	1725	1732	1755	S12	W90	1.000	13729	14.0	30	1N	3	C	1732	54	2.1	
HUAN	20	1725		1737	S12	W90	1.000	13729	14.0	12	-F		C				
229 RAMY	21	1740	1742	1757	S06	E23	.421	13736	23.5	17	-F	3	C		18		DE

Hα SOLAR FLARES

JUNE 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 JUN	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY	MIN.		CONF.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
	21	2155	2300	NO FLARE PATROL													
	22	0100	0115	NO FLARE PATROL													
230 KHAR	22	1140	1230	1355	S11	E20	.401	13731	24.8	135	-F		P	1230	165	1.9	EL
	22	1936	1952	NO FLARE PATROL													
	22	2016	2028	NO FLARE PATROL													
	22	2051	2056	NO FLARE PATROL													
	22	2112	2128	NO FLARE PATROL													
	22	2124	2158	NO FLARE PATROL													
	22	2209	0108	NO FLARE PATROL													
GRP62231	23	0558+7	0601	0920	S11	08	.224	13736	23.2	202	-F						E
			0615														
HURB	23	0559E	0601	0614D	S10	E01	.208	13736	23.3	160	-F						D
CATA	23	0605	0615	0645D	S11	W01	.225	13736	23.2	400	-N			0615	56	.6	
HURB	23	0629E	0631	0633D	S10	E01	.208	13736	23.3	50	-F						
KHAR	23	0632		0920	S11	E01	.225	13736	23.3	168	1F		P	0632	220	2.3	ET
	23	2214	2241	NO FLARE PATROL													
	24	0032	0043	NO FLARE PATROL													
	24	0053	0328	NO FLARE PATROL													
GRP62232	24	1030	1050+1	1109	N06	E89	1.000	13738	.1	39	1F						
CATA	24	1039	1050	1110	N06	E88	.999	13738	1.0	40	1F		P	1050	56		F
KHAR	24	1040	1051	1107	N07	E90	1.000	13738	1.2	27	1N		C				
233 CATA	24	1315E	1325	1340D	N05	E80	.984	13738	30.6	250	-F			1325	28		
234 CATA	24	1430E	1435	1445D	N05	E79	.981	13738	30.5	150	-F			1435	28		
	24	2210	2254	NO FLARE PATROL													
	24	2302	2318	NO FLARE PATROL													
	24	2322	2327	NO FLARE PATROL													
	24	2359	0053	NO FLARE PATROL													
	25	0130	0146	NO FLARE PATROL													
235 HTPR	25	0654	0658	0720	S12	W26	.492	13736	23.3	26	-F		C	0658	28	.2	E
236 UPIC	25	1350E	1355	1415	S11	W32	.566	13736	23.2	250	-F		P	1355	82	5.8	
237 HTPR	25	1613	1615	1626	S12	W33	.584	13736	23.2	13	-N		C	1615	18	.1	D
GRP62238	25	1640+1	1641+1	1646	S11	W33	.579	13736	23.2	6	-F				35	.4	E
HUAN	25	1640	1642	1646	S11	W34	.592	13736	23.1	6	-F	1	C	1642	50	.6	E
HTPR	25	1641	1641	1646	S12	W33	.584	13736	23.2	5	-N		C	1641	28	.2	E
	25	2056	2155	NO FLARE PATROL													
	25	2240	2328	NO FLARE PATROL													
	25	2348	0012	NO FLARE PATROL													
	26	0025	0034	NO FLARE PATROL													
239 ABST	26	0406	0409	0415	N07	E61	.874	13738	30.7	9	-F		C	0409	87	1.9	DJ
240 ABST	26	0427	0430	0440	S10	W40	.665	13736	23.2	13	-F		C	0430	87	1.2	DJ
241 HURB	26	0714E	0714	0726D	N10	E62	.883	13738	1.0	120	?F						
	IMP>1	NO	CATA2	HTPR2	TENR1	LVOV1	ABST1	HONT1									
242 HURB	26	0826E	0832	0836D	S09	W46	.734	13736	22.9	100	-F						
243 HURB	26	1055E	1105	1122D	S09	W46	.734	13736	23.0	270	-F						
	26	2111	2130	NO FLARE PATROL													
	26	2250	2257	NO FLARE PATROL													
	27	0217	0226	NO FLARE PATROL													
244 ABST	27	0415	0418	0428	S10	W53	.811	13736	23.2	13	-F		C	0418	105	1.8	DJ
GRP62245	27	0548	0552+0	0610	S11	W52	.803	13736	23.3	22	-F						E
HTPR	27	0548	0552	0609	S10	W53	.811	13736	23.3	21	-F		C	0552	20	.3	E
HURB	27	0550E	0552	0610D	S12	W52	.805	13736	23.3	200	-N						T
246 HURB	27	0629E	0629	0700D	S10	W53	.811	13736	23.3	310	-N						
247 ABST	27	0637	0640	0646	N05	E50	.766	13738	1.0	9	-F		P	0640	70	1.1	DJK

Hα SOLAR FLARES

JUNE 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 JUN	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY	MIN.		CONC.	TYPE	TIME UT	MEAS. AREA (Mill. of Disk)	CORR AREA Sq. Deg.	
GRP62248	27	0703+3	0708+1	0716	S10	W54	.821	13736	23.2	13	-F						DJ
HTPR	27	0703	0708	0712	S10	W54	.821	13736	23.2	9	-F		C	0708	20	.4	
ABST	27	0706	0709	0719	S11	W54	.823	13736	23.2	13	-F		P	0709	96	1.5	DJ
249 HTPR	27	0715	0719	0723	N08	E42	.671	13738	30.5	8	-F		C	0719	30	.5	
250 HTPR	27	0827	0832	0844	S10	W54	.821	13736	23.3	17	-F		C	0832	20	.3	
251 HTPR	27	0851	0852	0857	N04	E43	.681	13738	30.6	6	-F		C	0852	10	.1	
GRP62252	27	0925E	0946	0957	S10	W55	.838	13736	23.3	32	-N				25	.4	E
ARCE	27	0925E		0957	S10	W56	.840	13736	23.2	32D	-B		C	0940	22	.4	
HTPR	27	0932E	0946	0948D	S10	W55	.838	13736	23.3	16D	-F		C	0946	30	.5	E
253 ABST	27	1030	1033	1042	S10	W57	.849	13736	23.2	12	-F		P	1033	87	1.7	EJK
254 HURB	27	1057E	1058	11260	S10	W58	.858	13736	23.1	29D	? N						Y
	IMP.1 NO		CATA2	RAMY2	HTPR2	ABST1	MONT1	KIEV1									
GRP62255	27	1249+1	1249	1256	S11	W59	.868	13736	23.1	7	-F						
ZURI	27	1249	1249	1257	S11	W59	.868	13736	23.1	8	-F		C	1249	82	1.7	
HUAN	27	1250		1255	S11	W60	.876	13736	23.0	5	-F	1	C				
GRP62256	27	1400E	1410	14510	S07	W57	.845	13736	23.3	51	-N						E
			1427														
CATA	27	1400E	1410	1530	S05	W60	.869	13736	23.1	90D	-N			1410	56	1.2	
HTPR	27	1421E	1427	1451	S10	W55	.830	13736	23.5	30D	-N		C	1427	40	.6	E
257 CATA	27	1410E	1410	14200	N08	E39	.632	13738	30.5	10D	-N			1410	28	.4	
258 HTPR	27	1423	1424	1426	N08	E42	.671	13738	30.7	3	-F		C	1424	10	.1	
259 HUAN	27	1612		1708	S10	W60	.875	13736	23.2	56	-F	1	C				E
260 HUAN	27	1718	1728	1738	S10	W60	.875	13736	23.2	20	-F	1	C	1728	40	.9	E
261 HUAN	27	1745	1749	1753	S11	W61	.884	13736	23.2	8	-F	1	C	1749	30	.6	
GRP62262	27	1755+5	1803+2	1828	S10	W60	.875	13736	23.2	33	-N				50	1.0	E
			1817														
HTPR	27	1755E	1803	18280	S10	W56	.848	13736	23.5	33D	-N		C	1803	70	1.2	E
HUAN	27	1800	1805	1810	S10	W61	.883	13736	23.2	10	-N	2	C	1805	35	.8	
BOUL	27	1815	1817	1837	S10	W63	.898	13736	23.0	22	-F	3	C	1817	11	.2	
263 HUAN	27	1855E	1906	19110	S11	W64	.907	13736	23.0	16D	-N	1	P	1906	38	.7	
264 HUAN	27	1925	1931	1938	S11	W63	.899	13736	23.1	13	-F	1	C	1931	30	.6	
265 HUAN	27	1950	1952U	2000	S11	W63	.899	13736	23.1	10	-F	1	C				
266 HUAN	27	2027		2040	S11	W64	.907	13736	23.1	13	-N	1	C				E
267 CULG	28	0052E	0054	0100	S05	W65	.909	13736	23.2	8D	-F		C	0054	20	.5	
GRP62268	28	0320E	0503	0628	S10	W65	.913	13736	23.3	188	-N						LU
			0550														
TACH	28	0320E	0503	06800	S10	W65	.913	13736	23.3	160D	-N		C	0503	133		LTU
HTPR	28	0544E	0550	0628	S10	W66	.928	13736	23.3	44D	-N		C	0550	80		T
GRP62269	28	0635>9	0648	0749	S10	W69	.939	13736	23.1	74	-N						JK
			0738														
HTPR	28	0635	0648	0748	S10	W67	.926	13736	23.2	73	-N		C	0648	58		T
ABST	28	0734	0738	08040	S09	W70	.944	13736	23.1	30D	1N		P	0738	105		EJK
MONT	28	0742	0746	0749	S10	W70	.944	13736	23.1	7	-F		C	0746	28		D
GRP62270	28	0828+2	0858	1000	S10	W69	.939	13736	23.2	92	-N				58		EIK
			0929														
ARCE	28	0800E		10000	S10	W70	.944	13736	23.1	120D	-N		C	0923	51	1.2	K
LVOV	28	0828	0858	1109	S11	W70	.945	13736	23.1	161	2N		C	0858	200		CEI
HTPR	28	0830	0951	1000	S10	W67	.926	13736	23.3	90	-F		C	0846	50		T
MONT	28	0917	0929	0957	S10	W71	.950	13736	23.1	40	-F		C	0929	40		EK
271 HTPR	28	1010	1045	1100	S10	W68	.933	13736	23.3	50	-F		C	1045	30		T
272 HTPR	28	1617	1634	16380	S10	W72	.955	13736	23.3	21D	-F		C	1634	10		
273 HTPR	28	1643	1651	1701	S10	W72	.955	13736	23.3	18	-F		C	1651	10		E
274 HUAN	28	1823E		18290	S14	W78	.982	13736	22.9	6D	-F	1	P				
275 MCHA	28	2007	2011	2028	N04	E33	.544	13738	1.3	21	-N		C	2011	40	.5	EL

Hα SOLAR FLARES

JUNE 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 JUN	START	MAX. PHASE	END	APPROX. LAT.	APPROX. HEIR. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY	MIN.		CONG.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg	
	29	0015	0022	NO FLARE PATROL													
	29	0117	0120	NO FLARE PATROL													
	29	0123	0125	NO FLARE PATROL													
	29	0128	0140	NO FLARE PATROL													
276 KHAR	29	0830	0830	0840	N10	E17	.316	13738	30.6	10	-F		P	0830	90	1.0	D
GRP62277	29	1536+3	1548+4 1550	1602	N07	E16	.285	13738	30.8	26	-N				60	.6	
BOUL	29	1536	1544	1601	N07	E15	.268	13738	30.8	25	-F	3	C	1544	21	.2	
RAMY	29	1536	1544	1606	N08	E17	.305	13738	30.9	30	-F	2	C		72		DE
MCMA	29	1537	1540	1605	N07	E17	.301	13738	30.9	28	-B		C	1540	58	.5	E
ATHN	29	1539	1543	1556	N08	E16	.289	13738	30.9	17	-N	4	V		64		F
ATHN	29	1539	1543	1556	N08	E16	.289	13738	30.9	17	-N	4	C		64		F
CATA	29	1545	1550	1630	N06	E17	.297	13738	30.9	45	-N			1550	84	.9	
278 ATHN	30	0424	0426	0430	N07	E07	.142	13738	30.7	6	-F	4	C		32		DE
GRP62279	30	1003+6	1017+3	1039	N09	E08	.176	13738	0.0	36	-F				80	.8	
MONT	30	1003	1020	1044	N08	E06	.138	13738	30.9	41	-F		C	1020	40		D
TEHR	30	1009	1020	1023	N12	E11	.247	13738	1.2	14	-F	3	V		190		F
TEHR	30	1015E	1017U	1220D	N12	E10	.234	13738	1.2	1250	-F	3	C		60		
KHAR	30	1023	1023	1028	N08	E06	.138	13738	30.9	5	-F		C	1023	100	1.0	
LOCA	30	1030E	1030	1045	N07	E05	.114	13738	30.8	15D	1N		V	1030	101	1.0	
GRP62280	30	1148+4	1153+3	1207	N07	E04	.102	13738	30.8	19	-F				25	.3	EZ
RAMY	30	1148	1153U	1204	N06	E02	.067	13738	30.6	16	-F	3	C		27		DE Z
MONT	30	1152	1156	1202D	N08	E05	.126	13738	30.9	10D	-F		C	1156	20		
MCMA	30	1152	1154	1209	N07	E05	.114	13738	30.9	17	-N		C	1209	30	.3	E
281 RAMY	30	1309	1314U	1316	N08	E01	.093	13738	30.6	7	-F	4	C		33		DE
GRP62282	30	1915+8	1917 1925+4	1946	N10	W02	.131	13738	30.7	31	-F				40	.4	H
RAMY	30	1915	1925U	1947	N11	W02	.148	13738	30.7	32	-F	*	C		36		DE
MCMA	30	1915	1917	1920	N10	W03	.137	13738	30.6	5	-F	*	C	1917	30	.3	DH
MCMA	30	1921	1929	1945	N10	W03	.137	13738	30.6	24	-N	*	C	1929	40	.4	DH

DAILY FLARE INDICES

Includes all Flares

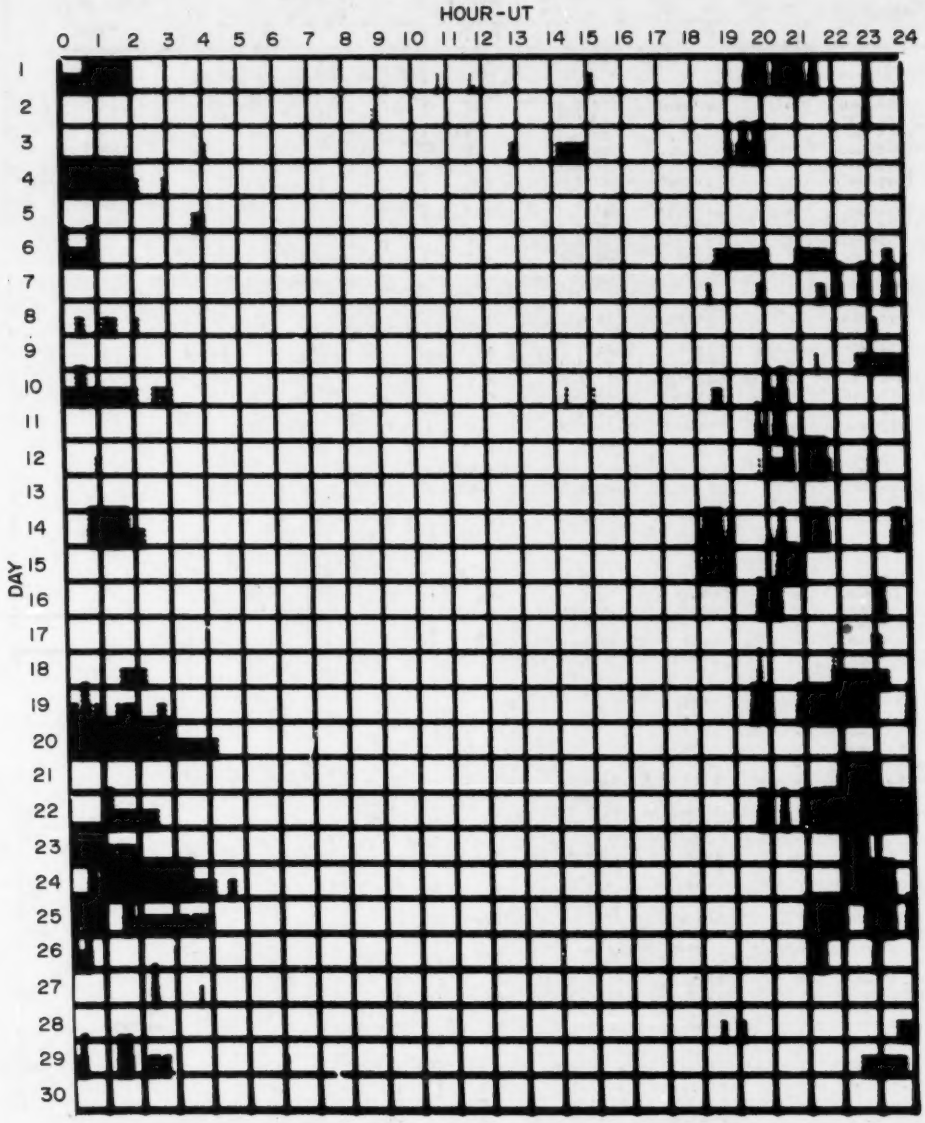
Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.
750601	0.00	20.7	750612	0.00	22.7	750622	5.41	19.8
750602	0.00	23.9	750614	0.00	21.8	750623	5.28	23.6
750603	5.37	23.4	750615	13.71	22.7	750624	5.60	19.3
750604	2.94	22.1	750616	18.58	23.3	750625	11.21	21.6
750605	5.28	24.0	750617	0.00	24.0	750626	6.57	23.4
750606	11.40	23.5	750618	0.00	23.9	750627	32.68	23.9
750607	0.00	23.4	750619	54.30	18.1	750628	10.61	24.0
750610	0.00	23.3	750620	3.85	24.0	750629	7.19	23.6
750611	.69	23.6	750621	5.46	22.9	750630	15.11	24.0

When no Flare Index is given, it is 0 for that day.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

JUNE 1975



Observatories included in total patrol:

Abastumani	Culgoora	Kiev	Meudon	Tehran
Arcetri	Haute Provence	Kodaikanal	Mitaka	Upice
Athenes	Herstmonceux	Locarno	Monte Mario	Voroshilov
Boulder	Huancayo	Lvov	Palehua	Wendelstein
Bucharest	Hurbanovo	Manila	Ramey	Zürich
Catania	Kharkov	McMath-Hulbert	Tachkent	

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
JUNE 1975

JUN 1975	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
1	18	MCMA	6	1513	1514	2			1	
2	260	ONDR	8 S	1347.8	1347.8	0.2	11			
	260	ONDR	8 S	1349.8	1349.8	0.2	26			
	260	ONDR	8 S	1355.6	1355.6	0.2	7			
	260	ONDR	8 S	1356.5	1356.5	0.2	26			
	260	ONDR	3 S	1428.7	1429.3	3.5	9	1.8		
	930	BORD	45 C	1735.5	1735.5	0.2	8	1		
	2695	BOUL	1 S	2024.5	2027	7	7	2		
5	260	ONDR	8 S	0753.8	0753.8	0.2	5			
	260	ONDR	8 S	0757.8	0757.8	0.2	4			
	260	ONDR	8 S	1188.7	1188.7	0.2	11			
	260	ONDR	8 S	1219.2	1219.2	0.2	6			
7	260	ONDR	3 S	1343.8	1344.6	1	11	1		
8	18	MCMA	41	1448	1454	21			2	
9	18	MCMA	6	0112	0115	4			1	
	720	SYDN	4 S/F	0129.2	0129.3	0.4				
	720	SYDN	4 S/F	0129.6	0138.5	1.4				
	1420	SYDN	1 S	0138.6	0138.6	0.1				
	18	MCMA	6	1631	1633	3			1	
	930	BORD	45 C	1646.2	1646.3	0.1	12	2		
	2695	BOUL	2 S	2126	2127.5	2	3	1		
10	9248	ARCE	1	1616.6	1616.9	2.2				
	2695	BOUL	1 S	2347	2347.5	2.5	3	1		
13	127	TORN	7 C	1802.5	1803	5 U	4	4		UNCERTN
15	18	MCMA	41	0858	0101	7			1	
16	245	SGMR	43 NS	1220.8	1920.4	717.20	8.3			
	18	MCMA	6	1349	1351	3			1	
	245	SGMR	7 C	1932.2	1934.2	4.3	12.6	6.3		
	245	SGMR	7 C		1935		21.1			
	18	MCMA	6	2028	2030	2			1	
	18	MCMA	6	2206	2207	2			1	
17	260	ONDR	44 NS	0638 E		512 D	48			
	234	OWIN	44 NS	0828 E		260 D		3		
	246	OWIN	44 NS	0828 E		260 D		3		
	283	OWIN	44 NS	0828 E		260 D		3		
	388	OWIN	44 NS	0828 E		260 D		3		
	315	OWIN	44 NS	0828 E		260 D		3		
	245	SGMR	44 NS	0910 E	2346.2	908 D	20.8			
	536	ONDR	8 S	0855.7	0855.7	0.2	15			
	221	ABST	48 F	1814.8	1815.2	1	20	5		
	18	MCMA	6	1841	1843	2			1	
18	260	ONDR	3 S	0855	0855.7	2	8	1.8		
	3188	CRIM	24 R	0907	0940		1			
	2695	BOUL	1 S	1727	1727.5	1	3	1		
	2695	BOUL	8 S	1733.5	1734	1	6	2		
	2695	BOUL	8 S	1756.5	1757	1.5	4	1		
	2695	BOUL	1 S	1801.5	1802	1	2	1		
	2695	BOUL	45 C	1825.5	1828	2.5	3	1		
20	1420	BOUL	8 S	0126.5	0127.5	2	14	5		
	1088	TYKW	45 C	0127	0127.3	2	10	3		12R
	2088	TYKW	5 S	0127	0127.7	2	1.1	0.3		8R
	127	TORN	7 C	0843	0843.8	3	6	3		UNCERTN
	550	KIEV	46 C	0907.7	0909.2	4.5	76			
21	108	GORK	42 SER	0841.6	0841.7	3.5	30	15		
	245	SGMR	6 S	0941.8	0943.3	5.9	11.7	3.5		
	200	GORK	41 F	0943.2	0943.6	1.2	20			
	108	GORK	41 F	0943.2	0943.5	1.2	40			
	221	ABST	48 F	0943.8	0944.2	0.8	14	3		
	245	SGMR	6 S	1937.6	1939.3	2.4	4.4	.9		
	410	SGMR	6 S	1939.2	1939.4	.4	.9	.4		
	245	SGMR	6 S	2022.7	2023	2	9.1	1.8		
	245	SGMR	6 S	2049.8	2050.3	4.5	60	20.4		
	410	SGMR	6 S	2052	2052.3	.5	.9	.4		
22	9248	ARCE	22	1347.6	1354.6	17.5				
	1420	ARCE	20	1349.2	1351.1	40.5				
	930	BORD	1 S	1809	1809.1	0.2	35	2		
23	245	SGMR	6 S	2045	2045.2	.8	15.2	4.6		
	18	MCMA	6	2046	2047	2			1	
	18	MCMA	42	2141	2145	6			1	

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
JUNE 1975

JUN 1975	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
24	9240	ARCE	1	0905.1	0905.4	1				
	9240	ARCE	22	1006.2	1007.4	35				
	3100	CRIM	24 R	1140 E	1140 U					
	9240	ARCE	21	1438	1448.9	41				
	9240	ARCE	3	1450	1452.2	5				
	2695	BOUL	8 S	1725.5	1726	1.5	2	5		
	18	MCMA	6	2229	2230	2			1	
25	720	SYDN	8 S	0326.2	0126.3	0.3				
	9240	ARCE	48	0734	0800	18.6				
	9240	ARCE	21	0810.3	0811	32				
	9240	ARCE	4	0811.3	0811.4	0.7				
	9240	ARCE	22	1021.8	1047 U	59				
	9240	ARCE	22	1416.7	1432.8	23.4				
26	237	TRST	41	1620.8	1620.9	0.3	68			23R
	2800	OTTA	1 S	1801	1801.9	3	1.2	0.5		
27	200	GORK	44 NS	0300 E		420		5		
	200	GORK	45 C	0355.6	0355.7	1	40			
	100	GORK		0356.1	0356.2	0.3	70			
	100	GORK	42 SER	0418	0418.4	2	70 D			
	100	GORK		0418	0419.5		70 D			
	260	ONDR	44 NS	0644 E		504 D	19			
	213	OWIN	44 NS	0820		400 D		4		
	234	OWIN	44 NS	0828		400 D		3		
	207	IZMI	42 SER	0836		136	38			
	246	OWIN	44 NS	0850		370 D		3		
	283	OWIN	44 NS	0850		370 D		3		
	213	OWIN	45 C	0850	0855.5	1	230	15		
	300	OWIN	44 NS	0850		370 D		3		
	315	OWIN	44 NS	0850		370 D		2		
	100	GORK	42 SER	0852	0852.4	1	60			
	100	GORK		0852	0852.9		60			
	536	ONDR	8 S	0855.5	0855.5	0.8	6	0.5		
	237	TRST	41	0855.6	0855.7	1	73			11R
	200	GORK	45 C	0855.8	0856.1	1.5	40 D			
	100	GORK	45 C	0855.8	0856.1	1.6	60 D			
	234	OWIN	45 C	0855	0855.5	1	200	20		
	246	OWIN	45 C	0855	0855.5	1	75	15		
	221	ABST	3 S	0858.5	0858.8	0.5	43			
	100	GORK	42 SER	0908.7	0908.9	26.5	60 D			
	100	GORK		0908.7	0935.2		60 D			
	100	GORK		0908.7	0925.2		60 D			
	100	GORK		0908.7	0917.7		60 D			
	200	GORK	42 SER	0908.8	0909	95	40 D			
	200	GORK		0908.8	0935.2		40 D			
	200	GORK		0908.8	0925.1		40 D			
	200	GORK		0908.8	0917.8		40 D			
	221	ABST	3 S	0923.8	0924	0.5	28			
	237	TRST	45	0924.6	0924.9	0.4	54	16		14R
	221	ABST	48 F	1010.5	1011.2	1.2	26	6		
	237	TRST	41	1011.2	1011.9	1	34			17R
	246	OWIN	45 C	1011	1011.5	1	30	5		
	213	OWIN	45 C	1011	1011.5	1	130	28		
	234	OWIN	45 C	1011	1011.5	1	40	8		
	18	MCMA	6	1409	1410	2			2	
28	300	OWIN	44 NS	0500 E		780 D		15		
	315	OWIN	44 NS	0500 E		780 D		15		
	213	OWIN	44 NS	0500 E		780 D		15		
	234	OWIN	44 NS	0500 E		780 D		15		
	246	OWIN	44 NS	0500 E		780 D		15		
	283	OWIN	44 NS	0500 E		780 D		15		
	207	IZMI	43 NS	0535		305	25			
	200	GORK	43 NS	0539		261 D		10		
	100	GORK	43 NS	0618		222		5		
	260	ONDR	44 NS	0648 E		520 D	37			
	221	ABST	44 NS	0715	0842	100	8			
	221	ABST	40 F	0723.5	0724.2	1	24			
	550	KIEV	40 F	0900		390	30	22		
	410	SGMR	44 NS	0912 E	2805.9	988 D	88			
	245	SGMR	44 NS	0912 E	1740.8	908 D	172			
	536	ONDR	3 S	0930.6	0931	0.5	10	1		
	221	ABST	3 S	0940	0940.2	0.5	33			
	221	ABST	3 S	0941.8	0942	0.5	35			
	550	KIEV	24 R	1407	1411.2	58.5	110			
	207	VORO	44 NS	2100	2209	360	17			
	2800	OTTA	20 GRF	2000	2013	40	1.8	0.9		
	2800	OTTA	240 R	2125	2200	35	1.6	0.8		
	2800	OTTA	24P R	2200		230 D	1.6			
29	200	GORK	43 NS	0303		417 D		5		
	100	GORK	43 NS	0303		417		5		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JUNE 1975

AMR HRS	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
	287	IZMI	44 NS	0505		415	35			
	260	ONDR	44 NS	0627 E		523 D	54			
	550	KIEV	6 S	0702.2	0703.2	1.2	26			
	550	KIEV	6 S	0725.2	0726	1.2	23			
	221	ABST	44 NS	0800	1052.5	180	7			
	550	KIEV	6 S	0803.2	0803.6	0.5	22			
	221	ABST	3 S	0815	0815.2	0.5	57			
	550	KIEV	6 S	0850.7	0851.4	1.2	20			
	245	SGMR	44 NS	0913 E	1724.7	907 D	534.6			
	220	HARS	45 C	1019.5	1020.5	2.5	40	13		
	221	ABST	3 S	1052.2	1052.5	0.5	81			
	410	SGMR	43 NS	1246.5	1255.7	693.5D	36.5			
	287	VORO	44 NS	2100	0141	360	8			
	3100	CRIM	1 S	0904	0905	2	1	0.5		
	2800	OTTA	21A GRF	1530	1542	60	1.4	0.7		
	9240	ARCE	20	1538.5	1541.3	38				
	2695	BOUL	1 S	1539	1541.5	4.5	4	1		
	1420	BOUL	8 S	1539	1540	3	3	1		
	1420	ARCE	2	1540.3	1540.4	5				
	2800	OTTA	A S	1540	1541	2	1.8	0.9		
	2800	OTTA	8 S	1541	1541	0.1	3			
	220	HARS	45 C	1727	1727.5	1.5	290	90		
	18	MCMA	41	1815	1819	7			1	
	2800	OTTA	20 GRF	1847		11	0.8	0.6		
	18	MCMA	6	1922	1923	2			1	
	18	MCMA	6	2042	2044	2			1	
	2800	OTTA	20 GRF	2123	2125	20	1	0.5		
	18	MCMA	42	2145	2205	39			1	
	18	MCMA	6	2342	2344	3			1	
30	260	ONDR	44 NS	0645 E		503 D	29			
	280	GORK	43 NS	0754		110		18		
	200	GORK		0821	0827		50			
	200	GORK	41 F	0821	0822.2	6.5	40			
	213	OWIN	44 NS	0830 E		390 D		5		
	234	OWIN	44 NS	0830 E		390 D		8		
	246	OWIN	44 NS	0830 E		390 D		8		
	283	OWIN	44 NS	0830 E		390 D		8		
	300	OWIN	44 NS	0830 E		390 D		8		
	315	OWIN	44 NS	0830 E		390 D		8		
	200	GORK		0843.3	0846		50 D			
	200	GORK	41 F	0843.3	0843.6	78	50 D			
	410	SGMR	44 NS	0913 E	2314.2	907 D	19.8			
	245	SGMR	44 NS	0913 E	2259.9	907 D	147.7			
	287	VORO	44 NS	2100	0008	360	53			
	200	HIRA	43 NS	2207	0020	703 D	80	28		SL
	287	VORO	24 R	2214	2243	254	80			
	100	HIRA	43 NS	2222	0000	668 D	150	47		SR
	221	ABST	3 S	0920	0920.2	0.5	38			
	221	ABST	3 S	0920.2	0920.5	0.5	47			
	200	GORK		0920.5	0929.2		50 D			
	200	GORK	45 C	0920.5	0920.6	1.1	50 D			
	3100	CRIM	2 S/F	1002	1003	20	2	1		
	2800	OTTA	8 S	1436.5	1436.5	0.10	2.2			
	237	TRST	45	1527.4	1527.5	0.4	46	14		4R
	18	MCMA	6	1626	1629	3			2	
	220	HARS	45 C	1712.5	1716.5	5	30	8		
	2695	BOUL	45 C	1715	1716	3	5	2		
	2695	BOUL	8 S	1728	1730	2.5	10	3		
	2800	OTTA	8 S	1830.2	1830.2	0.3	2.4	1.2		
	18	MCMA	6	1916	1918	3			1	
	220	HARS	45 C	1923	1924	2	30	12		
	18	MCMA	41	1926	1930	6			1	

Reports received from the following observatories:

ABST = Abastumani
ARCE = Arcetri
BERL = Berlin-Adlershof
BORD = Bordeaux
BOUL = Boulder
CRIM = Simferopol
DWIN = Dwingeloo
GORK = Gorky
HARS = Harestua
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Moscow Izmiran
KIEV = Kiev
KISV = Kislovodsk
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
SYDN = Sydney
TORN = Torun
TYKW = Toyokawa
TRST = Trieste
UPIC = Upice
VORO = Voroshilov (Ussurisk)

MAY 1975 DATA

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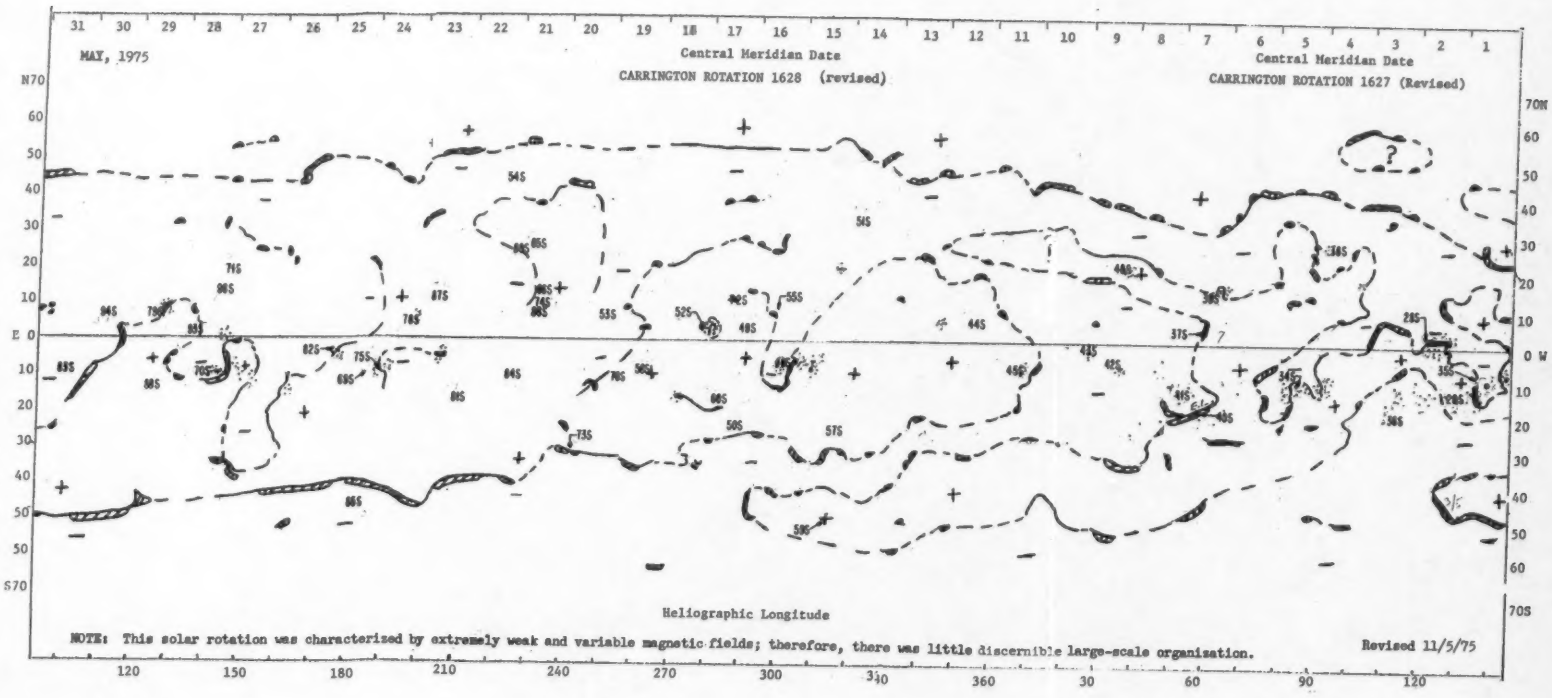
ABBREVIATED CALENDAR RECORD

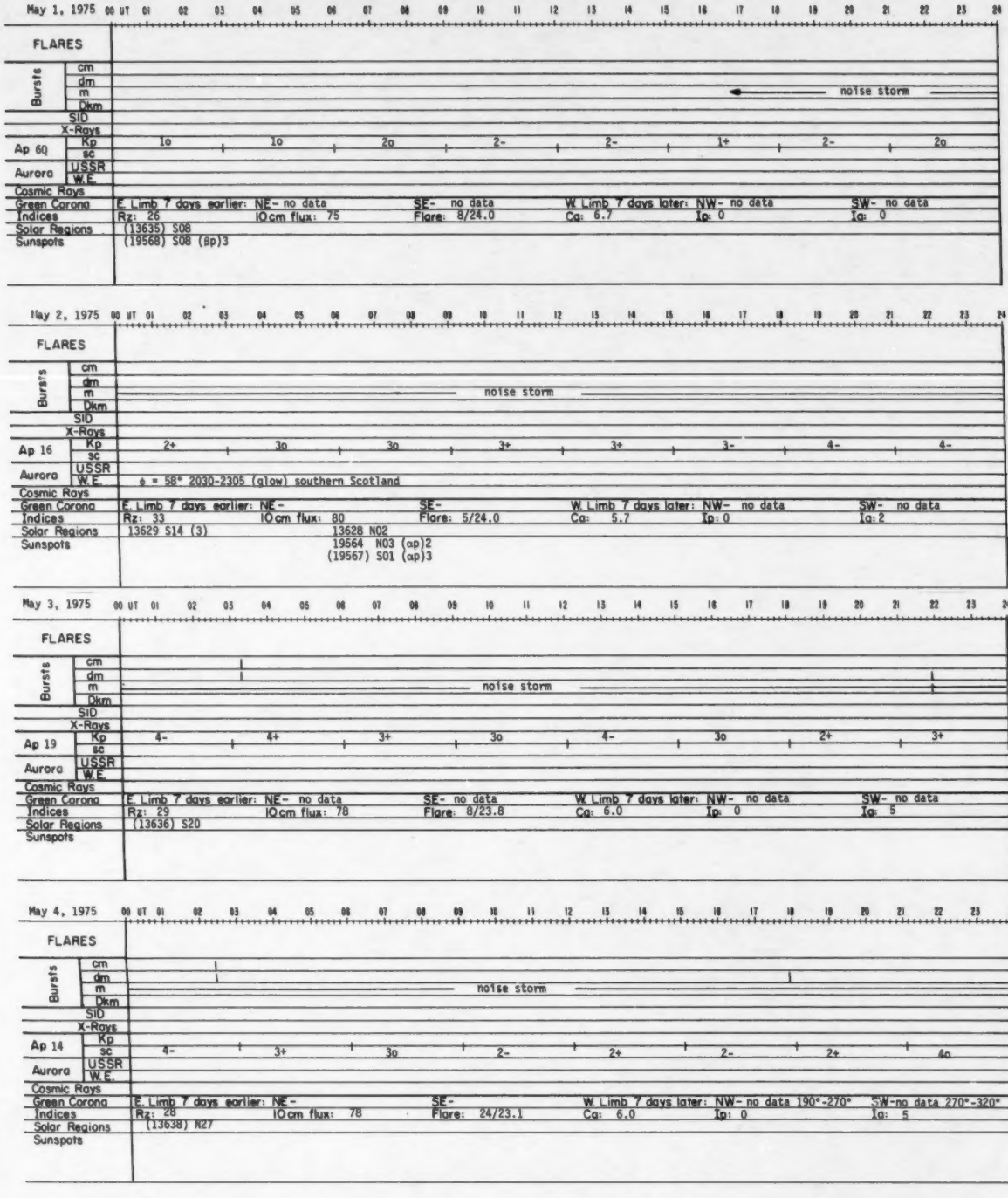
Hα SYNOPTIC CHART

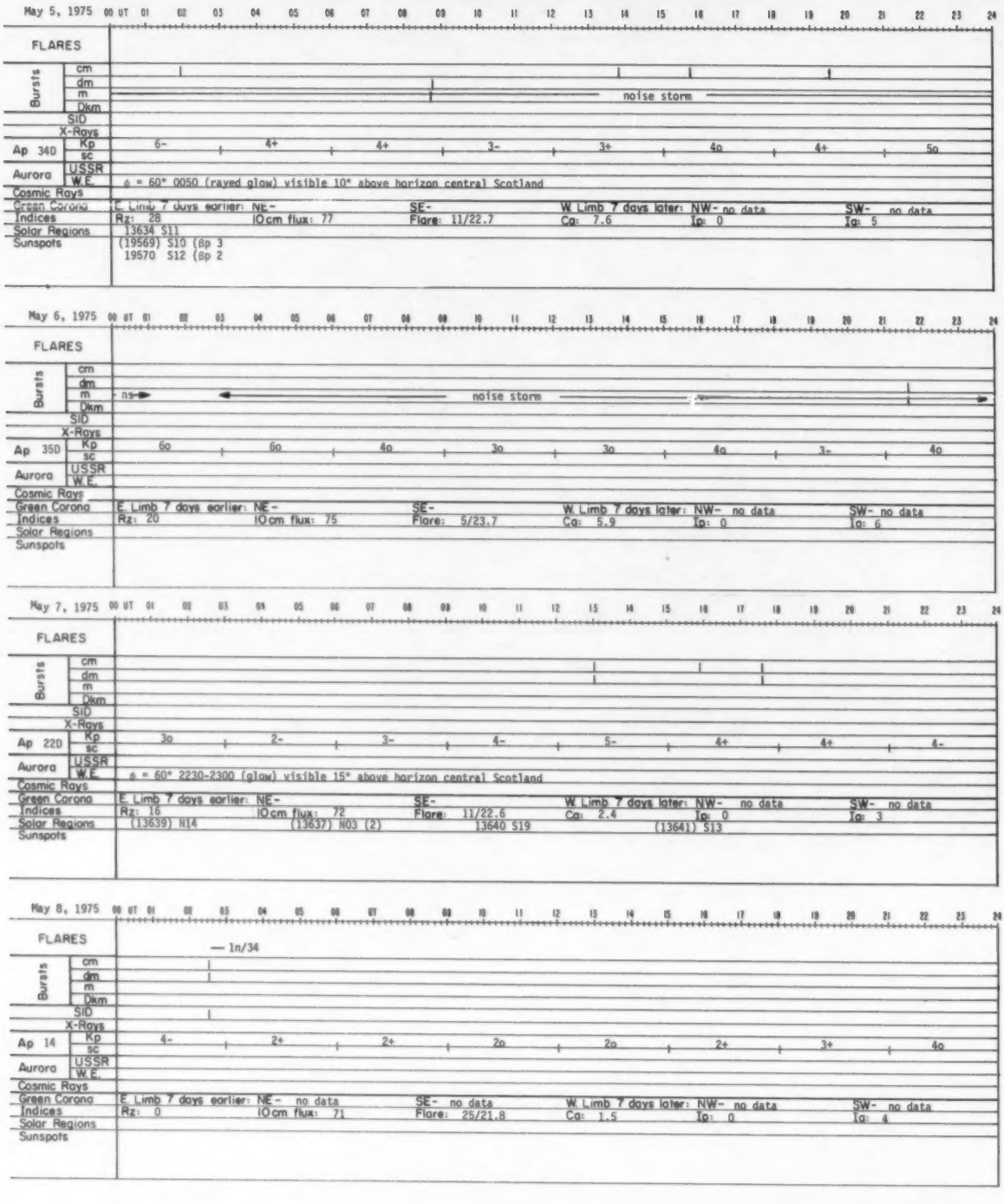
MAY 1975

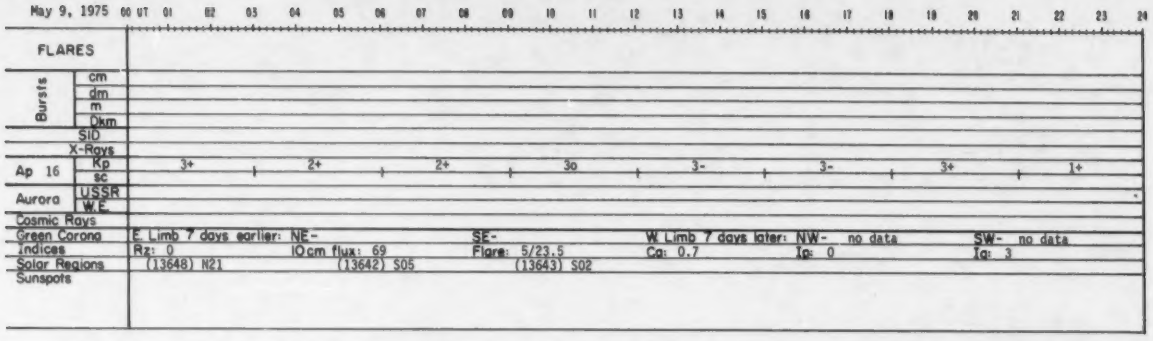

MAY, 1975
Central Meridian Date
CARRINGTON ROTATION 1628 (revised)
Central Meridian Date
CARRINGTON ROTATION 1627 (Revised)
Heliographic Longitude
NOTE: This solar rotation was characterized by extremely weak and variable magnetic fields; therefore, there was little discernible large-scale organization.
Revised 11/5/75

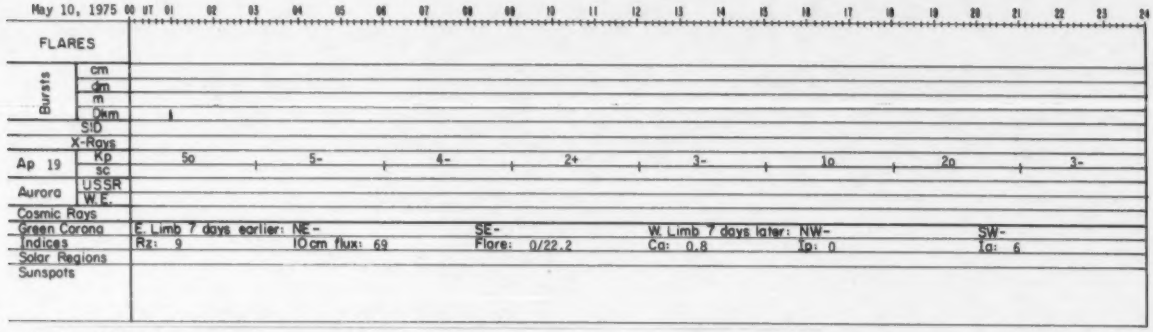
ABBREVIATED CALENDAR RECORD

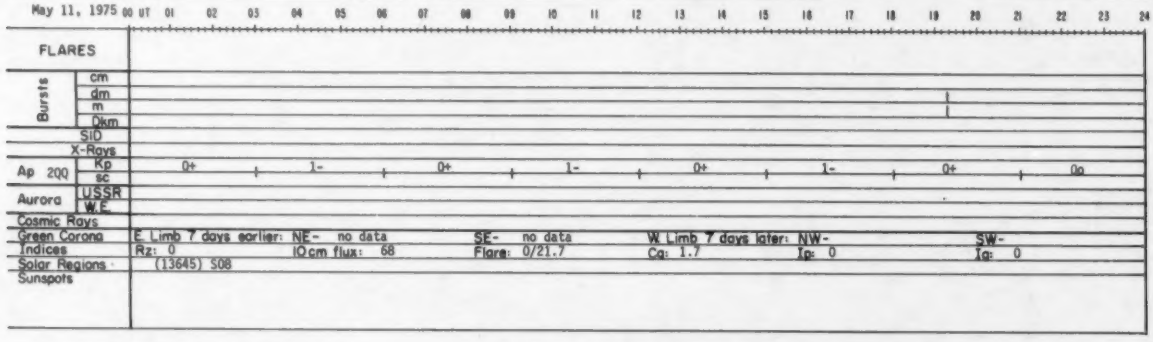
MAY 1975

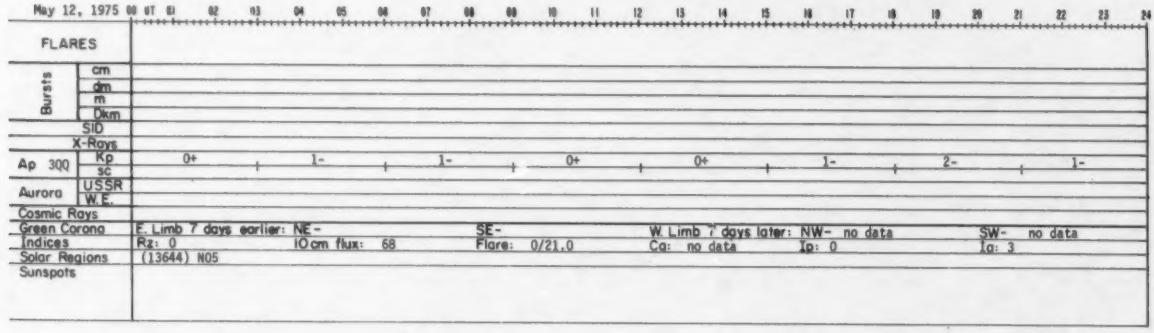

May 1, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
noise storm
SID
X-Rays
Ap 60 Kp 1o 1o 2o 2- 2- 1+ 2- 2o
sc
Aurora USSR W.E.
Cosmic Rays
Green Corona E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices Rz: 26 10cm flux: 75 Flare: 8/24.0 Ca: 6.7 Ip: 0 Ia: 0
Solar Regions (13635) S08
Sunspots (19568) S08 (Bp)3
May 2, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
noise storm
SID
X-Rays
Ap 16 Kp 2+ 3o 3o 3+ 3+ 3- 4- 4-
sc
Aurora USSR W.E. ϕ = 58° 2030-2305 (glow) southern Scotland
Cosmic Rays
Green Corona E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Indices Rz: 33 10cm flux: 80 Flare: 5/24.0 Ca: 5.7 Ip: 0 Ia: 2
Solar Regions 13629 S14 (3) 13628 N02
Sunspots 19564 N03 (αp)2
(19567) S01 (αp)3
May 3, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
noise storm
SID
X-Rays
Ap 19 Kp 4- 4+ 3+ 3o 4- 3o 2+ 3+
sc
Aurora USSR W.E.
Cosmic Rays
Green Corona E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices Rz: 29 10cm flux: 78 Flare: 8/23.8 Ca: 6.0 Ip: 0 Ia: 5
Solar Regions (13636) S20
Sunspots
May 4, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
noise storm
SID
X-Rays
Ap 14 Kp 4- 3+ 3o 2- 2+ 2- 2+ 4o
sc
Aurora USSR W.E.
Cosmic Rays
Green Corona E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data 190°-270° SW-no data 270°-320°
Indices Rz: 28 10cm flux: 78 Flare: 24/23.1 Ca: 6.0 Ip: 0 Ia: 5
Solar Regions (13638) N27
Sunspots


May 5, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 34D
Kp
6- 4+ 4+ 3- 3+ 4o 4+ 5o
sc
Aurora
USSR
W.E.
ϕ = 60° 0050 (rayed glow) visible 10° above horizon central Scotland
Cosmic Rays
Green Corona
E Limb 7 days earlier: NE- SE- W Limb 7 days later: NW- no data SW- no data
Indices
Rz: 28 10cm flux: 77 Flare: 11/22.7 Ca: 7.6 Ip: 0 Ig: 5
Solar Regions
13634 S11
Sunspots
(19569) S10 (βp 3
19570 S12 (βp 2
May 6, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
ns
noise storm
SID
X-Rays
Ap 35D
Kp
6o 6o 4o 3o 3o 4o 3- 4o
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E Limb 7 days earlier: NE- SE- W Limb 7 days later: NW- no data SW- no data
Indices
Rz: 20 10cm flux: 75 Flare: 5/23.7 Ca: 5.9 Ip: 0 Ig: 6
Solar Regions
Sunspots
May 7, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 22D
Kp
3o 2- 3- 4- 5- 4+ 4+ 4-
sc
Aurora
USSR
W.E.
ϕ = 60° 2230-2300 (glow) visible 15° above horizon central Scotland
Cosmic Rays
Green Corona
E Limb 7 days earlier: NE- SE- W Limb 7 days later: NW- no data SW- no data
Indices
Rz: 16 10cm flux: 72 Flare: 11/22.6 Ca: 2.4 Ip: 0 Ig: 3
Solar Regions
(13639) N14 (13637) N03 (2) 13640 S19 (1364) S13
Sunspots
May 8, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
1n/34
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 14
Kp
4- 2+ 2+ 2o 2o 2+ 3+ 4o
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E Limb 7 days earlier: NE- no data SE- no data W Limb 7 days later: NW- no data SW- no data
Indices
Rz: 0 10cm flux: 71 Flare: 25/21.8 Ca: 1.5 Ip: 0 Ig: 4
Solar Regions
Sunspots


May 9, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 16 Kp 3+ 2+ 2+ 3o 3- 3- 3+ 1+
sc
Aurora USSR W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
E Limb 7 days earlier: NE- SE- W Limb 7 days later: NW- no data SW- no data
Rz: 0 10cm flux: 69 Flare: 5/23.5 Ca: 0.7 Ip: 0 Ia: 3
(13648) N21 (13642) S05 (13643) S02


May 10, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 19 Kp 5o 5- 4- 2+ 3- 1o 2o 3-
sc
Aurora USSR W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
E Limb 7 days earlier: NE- SE- W Limb 7 days later: NW- SW-
Rz: 9 10cm flux: 69 Flare: 0/22.2 Ca: 0.8 Ip: 0 Ia: 6


May 11, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 2QQ Kp 0+ 1- 0+ 1- 0+ 1- 0+ 0o
sc
Aurora USSR W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
E Limb 7 days earlier: NE- no data SE- no data W Limb 7 days later: NW- SW-
Rz: 0 10cm flux: 68 Flare: 0/21.7 Ca: 1.7 Ip: 0 Ia: 0
(13645) S08


May 12, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 3QQ Kp 0+ 1- 1- 0+ 0+ 1- 2- 1-
sc
Aurora USSR W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
E Limb 7 days earlier: NE- SE- W Limb 7 days later: NW- no data SW- no data
Rz: 0 10cm flux: 68 Flare: 0/21.0 Ca: no data Ip: 0 Ia: 3
(13644) N05

May 13, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 60	Kp	1- 1o 2- 1o 1o 1+ 2+ 3o
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices		Rz: 0 10cm flux: 68 Flare: 0/24.0 Ca: 2.2 Ip: 0 Ig: 3
Solar Regions		
Sunspots		

May 14, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

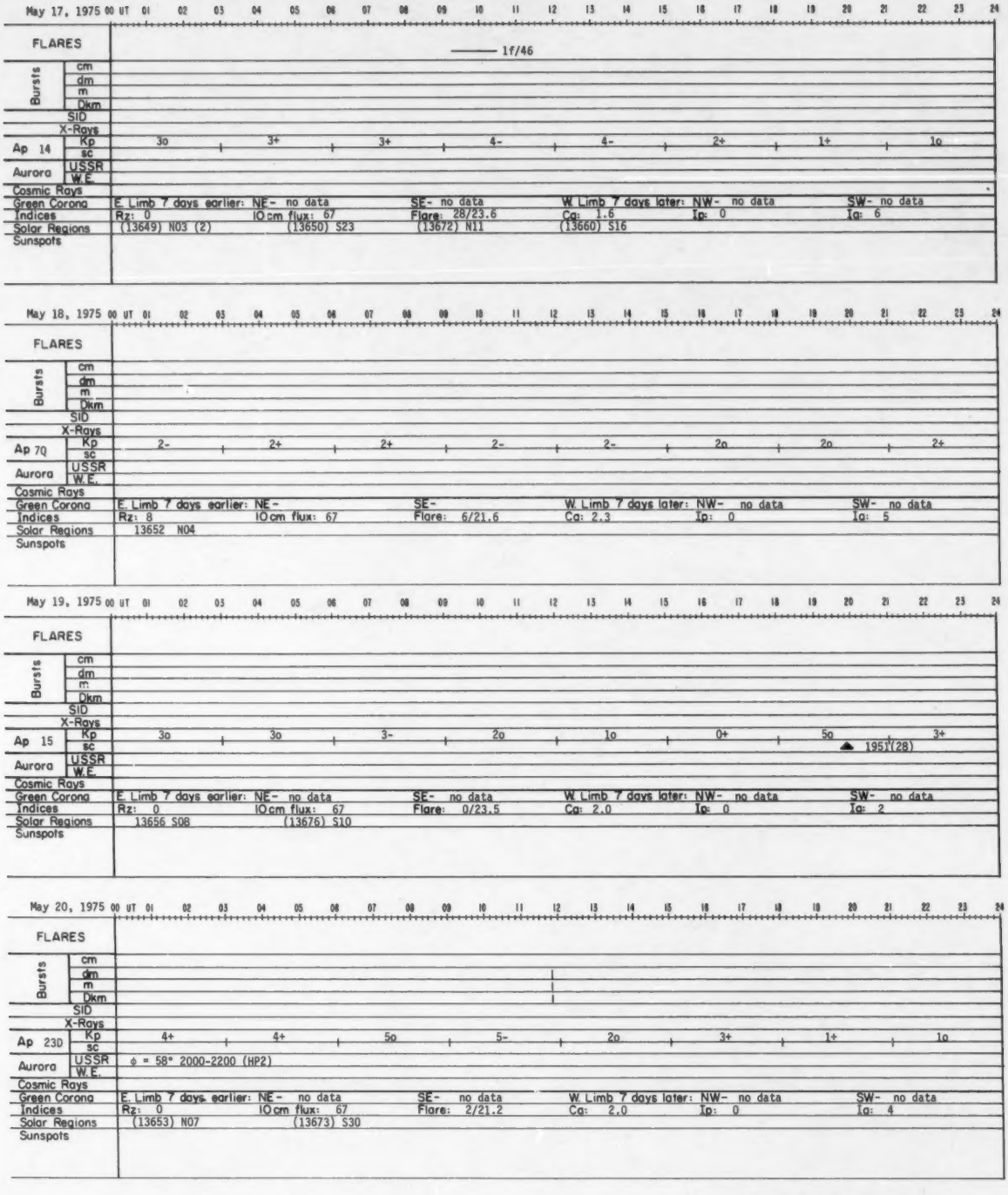
FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 14	Kp	5- 3+ 3- 3- 2o 1+ 2o 3-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data 215°-270° SW- no data 270°-355°
Indices		Rz: 7 10cm flux: 67 Flare: 5/22.9 Ca: 1.4 Ip: 0 Ig: 3
Solar Regions		(13651) N33
Sunspots		

May 15, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 300	Kp	1- 1+ 1+ 0+ 0+ 0+ 0+ 0+
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- SW-
Indices		Rz: 7 10cm flux: 66 Flare: 0/22.6 Ca: 1.8 Ip: 0 Ig: 1
Solar Regions		(13657) S25 (13659) S50
Sunspots		

May 16, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 280	Kp	0+ 3o 6- 4- 5- 3+ 4o 4+
	sc	▲ 0308(20)
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices		Rz: 8 10cm flux: 67 Flare: 5/24.0 Ca: 1.4 Ip: 0 Ig: 2
Solar Regions		13646 S06 (13655) N09
Sunspots		(19571) S06 ap


May 17, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
1f/46
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 14
Kp
3o 3+ 3+ 4- 4- 2+ 1+ 1o
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices
Rz: 0 10cm flux: 67 Flare: 28/23.6 Ca: 1.6 Ip: 0 Ig: 6
Solar Regions
(13649) N03 (2) (13650) S23 (13672) N11 (13660) S16
Sunspots
May 18, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 7Q
Kp
2- 2+ 2+ 2- 2- 2o 2o 2+
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Indices
Rz: 8 10cm flux: 67 Flare: 6/21.6 Ca: 2.3 Ip: 0 Ig: 5
Solar Regions
13652 N04
Sunspots
May 19, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 15
Kp
3o 3o 3- 2o 1o 0+ 5o 3+
sc
1951(28)
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices
Rz: 0 10cm flux: 67 Flare: 0/23.5 Ca: 2.0 Ip: 0 Ig: 2
Solar Regions
13656 S08 (13676) S10
Sunspots
May 20, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 23D
Kp
4+ 4+ 5o 5- 2o 3+ 1+ 1o
sc
Aurora
USSR
φ = 58° 2000-2200 (HP2)
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices
Rz: 0 10cm flux: 67 Flare: 2/21.2 Ca: 2.0 Ip: 0 Ig: 4
Solar Regions
(13653) N07 (13673) S30
Sunspots

May 21, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 12	Kp	3- 3- 2- 3- 2+ 2o 4- 3-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona	E Limb 7 days earlier: NE- no data	SE- no data W Limb 7 days later: NW- SW-
Indices	Rz: 0 10cm flux: 68	Flare: 0/23.4 Ca: 0.8 Ip: 0 Ia: 2
Solar Regions	(13666) N14 13665 N26	13674 N09 (13686) N09 (13680) N25
Sunspots		

May 22, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 11	Kp	2o 2o 3- 3+ 3+ 2+ 2- 2+
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona	E Limb 7 days earlier: NE- no data	SE- no data W Limb 7 days later: NW- no data SW- no data
Indices	Rz: 8 10cm flux: 69	Flare: 1/22.3 Ca: 1.2 Ip: 0 Ia: 3
Solar Regions	(13684) S10 (13654) N45	
Sunspots		

May 23, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	l
	Dkm	
SID		
X-Rays		
Ap 8	Kp	2- 3- 3- 3- 2- 1+ 2+ 1-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona	E Limb 7 days earlier: NE- no data	SE- no data W Limb 7 days later: NW- no data SW- no data
Indices	Rz: 8 10cm flux: 69	Flare: 0/21.8 Ca: 1.3 Ip: 0 Ia: 2
Solar Regions	(13681) S16 (13687) N11	
Sunspots		

May 24, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 50	Kp	1- 1o 2o 2- 1o 1o 1+ 2+
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona	E Limb 7 days earlier: NE-	SE- W Limb 7 days later: NW- no data SW- no data
Indices	Rz: 7 10cm flux: 69	Flare: 0/24.0 Ca: 1.7 Ip: 0 Ia: 0
Solar Regions	(13678) N05 13675 S09	
Sunspots	19572 S09 (ap)2	

May 25, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 14 — Kp: 2+ | 2+ | 1o | 1+ | 2o | 3o | 4o | 5-

sc

Aurora: USSR; W.E.

Cosmic Rays

Green Corona

Indices: E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Rz: 0 10cm flux: 68 Flare: 0/22.7 Ca: 1.8 Ip: 0 Ia: 1

Solar Regions: (13669) S10 (13685) S47 (13682) S03

Sunspots: (19573) S04 α

May 26, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 18 — Kp: 5o | 5- | 4- | 2+ | 1+ | 2- | 1+ | 2-

sc

Aurora: USSR; W.E.

Cosmic Rays

Green Corona

Indices: E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Rz: 0 10cm flux: 67 Flare: 0/23.3 Ca: 2.2 Ip: 0 Ia: 5

Solar Regions

Sunspots

May 27, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 10 — Kp: 2o | 2o | 3- | 2+ | 3+ | 2o | 3- | 2+

sc: ▲ 0634(10)

Aurora: USSR; W.E.

Cosmic Rays

Green Corona

Indices: E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Rz: 7 10cm flux: 69 Flare: 0/23.1 Ca: 2.5 Ip: 0 Ia: 1

Solar Regions

Sunspots

May 28, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 500 — Kp: 2+ | 1+ | 0+ | 0+ | 1- | 2o | 2- | 1o

sc

Aurora: USSR; W.E.

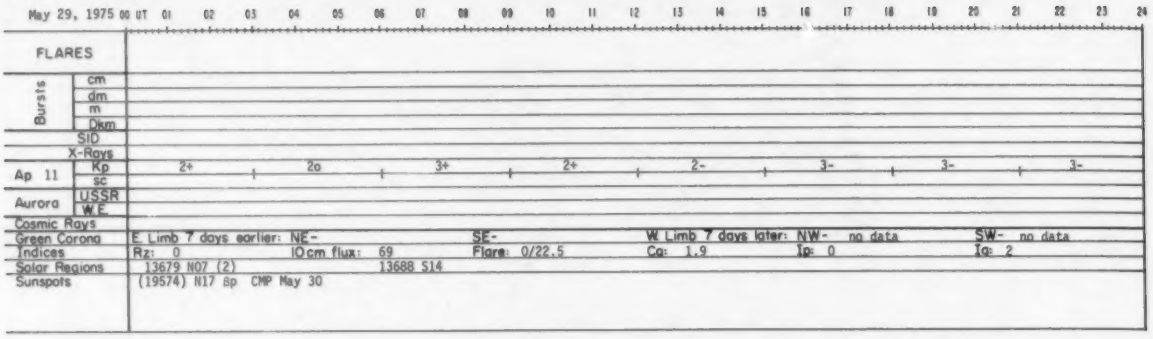
Cosmic Rays

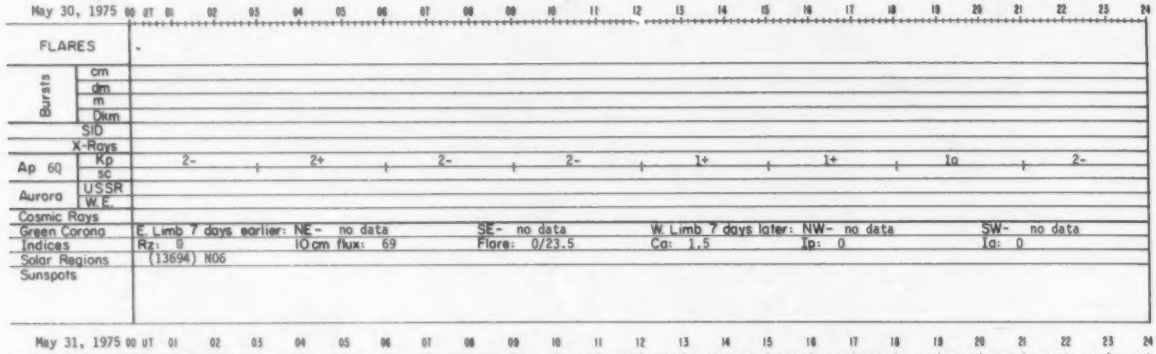
Green Corona

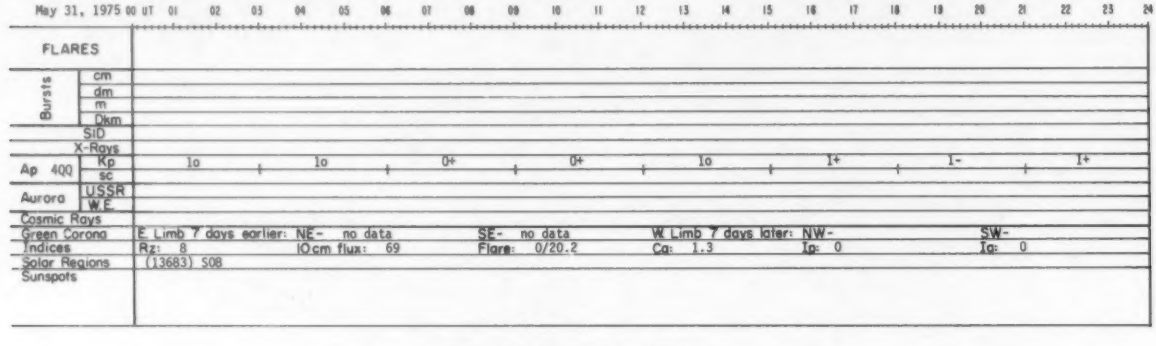
Indices: E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Rz: 13 10cm flux: 69 Flare: 17/21.8 Ca: 2.5 Ip: 0 Ia: 0

Solar Regions: (13671) N19 13670 S10 (2) (13696) N13 (13693) N02

Sunspots


May 29, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 11 Kp 2+ 2o 3+ 2+ 2- 3- 3- 3-
sc
Aurora USSR W.E.
Cosmic Rays
Green Corona E Limb 7 days earlier: NE- SE- W Limb 7 days later: NW- no data SW- no data
Indices Rz: 0 10cm flux: 69 Flare: 0/22.5 Ca: 1.9 Ip: 0 Ia: 2
Solar Regions 13679 N07 (2) 13688 S14
Sunspots (19574) N17 Bp CMP May 30


May 30, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 6Q Kp 2- 2+ 2- 2- 1+ 1+ 1o 2-
sc
Aurora USSR W.E.
Cosmic Rays
Green Corona E Limb 7 days earlier: NE- no data SE- no data W Limb 7 days later: NW- no data SW- no data
Indices Rz: 8 10cm flux: 69 Flare: 0/23.5 Ca: 1.5 Ip: 0 Ia: 0
Solar Regions (13694) N06
Sunspots


May 31, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 4QQ Kp 1o 1o 0+ 0+ 1o 1+ 1- 1+
sc
Aurora USSR W.E.
Cosmic Rays
Green Corona E Limb 7 days earlier: NE- no data SE- no data W Limb 7 days later: NW- SW-
Indices Rz: 8 10cm flux: 69 Flare: 0/20.2 Ca: 1.3 Ip: 0 Ia: 0
Solar Regions (13683) S08
Sunspots

REGIONAL FLARE INDEX
INCLUDES ALL FLARES

MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
13635	S 8	75/05/01.5	75/05/01	75/05/05	22.94	4.59	13
13628	N 2	75/05/02.5	75/04/26	75/04/29	8.31	2.08	5
13634	S12	75/05/05.4	75/04/30	75/05/09	72.46	7.25	13
13646	S 6	75/05/16.2	75/05/09	75/05/17	35.95	3.99	6
13652	N 4	75/05/18.8	75/05/16	75/05/25	13.26	2.65	4
13675	S 9	75/05/24.9	75/05/22	75/05/22	.71	.71	2
13688	S14	75/05/29.6	75/05/28	75/05/28	16.61	16.61	3

Note:

Because of differences in method of calculation, the dates of Central Meridian Passage for the McMath Plage Regions vary somewhat from those given elsewhere. Any region not listed here produced no flares during its disk passage.

MISCELLANEOUS DATA

Contents

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Solar Radio Waves
Spectral - Culgoora -- September 1975 24-25
Selected Events by Radioheliograph - September 1975 26

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1975

OCT 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
01	0000	0730	CULG				0017		1				IIIB
			CULG				0120		1				IIIB
			CULG				0240	0246	1				IIIG
			CULG				0335	0336	1				IIIG,U
			CULG				0357		1				IIIB
			CULG				0426	0434	1				IIIG
			CULG				0451	0452	2	0451	0452		IIIG,V
			CULG				0535		1				IIIB
			CULG				0540		1				IIIB,U
			CULG				0553	0600	1				IIIGG,V
			CULG				0604	0610	1				II
	2032	2400	CULG										
02	0000	0732	CULG				0532.5						
			CULG				0650	0650.5					IIIB,W
	2232	2400	CULG										IIIG,W
03	0000	0732	CULG										
	2032	2400	CULG										
04	0000	0731	CULG										
	2031	2400	CULG										
05	0000	0731	CULG										
	2031	2400	CULG				2031	2400					IIIN,W
			CULG				2056	2057	1				IIIG
06	0000	0731	CULG				0030	0731					IIIN,W
	2031	2400	CULG				2247.5	2248.5	1				IIIG
07	0000	0731	CULG				0607	0607.5					IIIG
			CULG				0643	0643.5					IIIG,W
	2031	2314	CULG										
	2317	2400	CULG				2326.5						IIIB,W
08	0000	0731	CULG				0708	0717					IIIGG
	2031	2400	CULG										
09	0000	0731	CULG				0502						IIIB,W
	2031	2400	CULG										
10	0000	0726	CULG										
	2135	2400	CULG										
11	0000	0729	CULG										
	2029	2400	CULG										
12	0000	0729	CULG										
	2029	2400	CULG										
13	0000	0729	CULG										
	2029	2400	CULG										
14	0000	0728	CULG										
	2028	2127	CULG										
	2150	2400	CULG										
15	0000	0727	CULG										
	2027	2400	CULG										
16	0000	0722	CULG										
	2027	2400	CULG										
17	0000	0727	CULG										
	2026	2400	CULG										
18	0000	0726	CULG										
	2026	2400	CULG										
19	0000	0726	CULG				0541	0542					IIIG,W

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1975

OCT 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
19			CULG				0623						IIIB,N
	2025	2400	CULG										
20	0000	0726	CULG										
	2025	2400	CULG										
21	0000	0725	CULG										
	2025	2400	CULG										
22	0000	0725	CULG										
	2025	2400	CULG										
23	0000	0723	CULG										
	2025	2400	CULG										
24	0000	0724	CULG										
	2024	2400	CULG										
25	0000	0724	CULG										
	2024	2400	CULG										
26	0000	0724	CULG										
	2024	2400	CULG										
27	0000	0723	CULG										
	2023	2400	CULG										
28	0000	0722	CULG										
	2023	2400	CULG										
29	0000	0722	CULG										
	2022	2400	CULG										
30	0000	0722	CULG										
	2022	2400	CULG										

SELECTED SOLAR EVENTS
SEPTEMBER 1975

Culgoora

UT Date 197.5 September	HELIOGRAPH EVENT							Spectral Type	REMARKS
	Start (UT)	End (UT)	Freq. (MHz)	Positions		Polarization	Intensity (1-3)		
				Central Dist. ($R_\odot$)	Position Angle (Deg.)				
1	0335	0338	(160	0.9	290		†)	IIIG	Other similar events during day
			(80	1.2	290		)		
			(43.25	1.5	290		)		
18	0305	0306	80	1.2	220			IIIG	

Days without Heliograph observations: ..3.....

† Because of equipment modifications which are in progress, intensity classifications are not available for this month. An indication of intensities can be obtained from the corresponding entries in "Solar Radio Emission - Spectral Observations"

UAG Series of Reports

Prepared by World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, Colorado, U.S.A.

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